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OUR MOTTO
"HIGHEST
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1913

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Portland
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New
Peas
"Routledge
Prize"



NEW Cabbage
"Copenhagen Market"

Routledge SEED & FLORAL CO.

169 Second St.

PORTLAND, ORE.

Between Morrison & Yamhill streets

FREE PREMIUMS and something you want.

The following premiums are given only when cash accompanies each order at prices printed in this catalog.

Note.—Premiums NOT ALLOWED on Grass or Field Seeds, Fertilizers, Poultry Foods, Incubators or Brooders.

Instead of limiting you to certain seeds, or collection of seeds, as most companies do, and which does not always appeal to customers, we will be more liberal and allow you to make your own selection, which we believe will be more satisfactory. We offer as follows:

ON MAIL ORDERS AT POSTPAID PRICES

With every purchase of \$1.00 you are allowed, free, any 10c packet of vegetable or flower seed we list, or equal value in Gladiola or Dahlia Bulbs, Strawberry Plants or Mammoth Blackberries. Remember, 10c on each and every dollar, i. e., 20c on \$2.00; 30c on \$3.00, etc.

ON FREIGHT OR EXPRESS ORDERS AT BUYER'S EXPENSE

The above offer applies, or we give you equal value of vegetables or flower seeds in bulk, fruit or ornamental trees, shrubs, vines or rose bushes. (Annual vegetable and flowering plants excepted.)

New Parcels Post Law.

THE NEW PARCEL-POST LAW WILL NOT CHANGE POSTAGE RATES ON SEEDS, ETC. Bulletin No. 336 by Postmaster General reads "That this Act shall not in any way affect the postage rate on seeds, cuttings, bulbs, roots, scions and plants, as fixed by section 482 of the Postal Laws and Regulations."

For full information as to just what this new Parcel Post Law includes, the rates and zones, see daily newspapers or ask your postmaster.

The rates, zones and general information will probably be issued in pamphlet form by the United States Government for free distribution about January 1, 1913.

Special Rates on Seeds in Packets or Ounces—Postpaid

25 CENTS Worth **Seeds FREE** with every \$1.00 order for Seeds in Packets and ounces. Remember, in packets and ounces only. \$1.25 for \$1.00, \$2.50 for \$2.00, and so on. This does not apply on quantities over one ounce, or where any other premium is taken.

IMPORTANT FOR YOUR GUIDANCE PLEASE READ

A reading of the following will prove an aid to you and to us.

OUR TERMS: Are strictly cash with order. We prefer not to send C. O. D., but if wanted by that method, customers should enclose one remittance of one-quarter of the amount with order.

SEEDS POSTPAID BY MAIL: We send all Vegetable and Flower Seeds, in quantities of one pound or less, by mail, postpaid, to any postoffice in the United States, at the prices named in this catalog, excepting Peas, Beans and Corn.

BY FREIGHT OR EXPRESS: In ordering seeds to be sent by freight or express at your expense, deduct 10c per pound from postpaid prices. Note.—Peas, Beans and Corn are not postpaid.

PREPAY STATIONS: When you send in orders to go by freight or express, be sure that you add money enough to pay freight charges if your sta-

tion is a prepay, which is always the case where there is no regular agent.

ORDERS ARE PROMPTLY FILLED: We acknowledge promptly receipt of all orders, so if you do not hear from an order sent us, within a reasonable time, write us, giving full information.

REPORTS—GOOD OR BAD: Will you help us to attain greater success by writing and telling us how our Seeds, Plants and Trees reach you, how they grow, and how you like them? We will certainly appreciate it. Your criticisms, if you have any, as well as your praises, are desired.

MISTAKES: These will happen occasionally, in spite of all care. Write us at once, with copy of original order, if possible, and mistakes will be promptly rectified.

LARGE ORDERS. Any dealer, market gardener, institution or individual wishing seeds, plants, trees or supplies in large quantities, is requested to mail us a list of what is wanted, and we will promptly return it with our very lowest prices. A letter of inquiry may save you dollars if you want to buy in quantity.

Note.—There are so many contingencies to be encountered in growing plants from seed and in setting out plants, trees, etc., that are dependent on the weather and other conditions over which we have no control that success is not altogether dependent on the seed or plant, therefore while we use every precaution in procuring fresh, pure and reliable seeds, etc., we, in common with other responsible seed houses, sell our goods subject to the following disclaimer, it being that adopted by the American Seed Trade Association, i. e.: We give no warranty, express or implied, as to description, quality, productiveness or any other matter of any seeds, bulbs, trees or plants sent out, and will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they are at once to be returned.—Routledge Seed & Floral Co.

Routledge SEED & FLORAL CO.

**OUR
MOTTO:
Quality
First,
Price as
Low
as Possible.**

While we exercise the greatest care to have all Seeds pure and reliable, and all Bulbs, Plants and Nursery Stock true to name, we do not give any warranty, express or implied, and will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms and conditions, they must be returned at once, and the money that has been paid for the same will be refunded.

ROUTLEDGE SEED & FLORAL CO.

NAME _____

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THESE SPACES.**

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DATE..... AMOUNT ENCLOSED, \$..... ACK.....

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FORWARD BY _____ O. K. by _____
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O. K. by.....

Remember—Add 10c lb. for postage for Peas, Beans and Corn if wanted by mail.

SPECIAL NOTICE.—We shall esteem it a great favor if you will give us in the spaces below the names and addresses of some of your neighbors or any acquaintances in the West whom you think would be interested in this catalog. For your kindness, we will enclose some seed, which you do not order, free of charge.

NAME	POST OFFICE	R. F. D.	STATE

Remember—Add 10c lb. for postage for Peas, Beans and Corn if wanted by mail.



Greetings to Our Customers & Friends

Portland, Ore., Jan. 1st, 1913.

We have endeavored to make this, our Complete Annual for 1913, more complete and interesting than heretofore. All stocks are classified in sections, and by referring to the index on this page and the next you can quickly find anything wanted.

This book has been carefully rewritten and brought up-to-date; in fact, we doubt if you can find a more reliable guide to buy from.

This is the Sixteenth Annual Seed Catalog written by our expert catalog writer, and he knows Western conditions and the best stocks for this Coast. The garden scene on front cover is from a photograph taken at Woodlawn School garden, in which over 500 school children had individual gardens. The "Back to the Soil" movement is gaining rapidly, and it's a great thing for this country.

Our business last year showed an enormous increase, due, we are led to believe, by our "High Quality" Seeds and Supplies and methods of doing business.

We appreciate the many favors and orders given us, the kind words expressed and loyalty of our customers.

This year we have larger and more varied stocks and better equipment. Our motto is and always will be "Quality First, Price as Low as We Can Make It." We are catering to the best class of buyers who appreciate "High Quality," service, etc. Our knowledge and experience is at your command always.

Trusting that you will again favor us with your valued orders, we remain,

Yours, for Prettier Yards and More Productive Gardens,

SEED STORE,

169 Second Street, near Morrison.

CITY TREE YARD,

Corner Fourth and Madison St.

*Routledge
Seed & Floral Co.*

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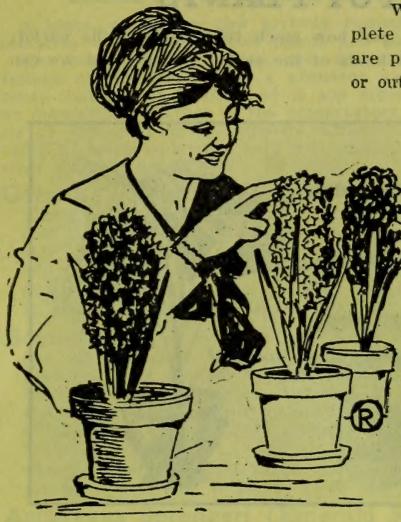
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Beautiful Winter and Spring Flowering Bulbs

We import in carload lots from the best growers in Holland a complete stock of Dutch Bulbs. These generally arrive here in October and are planted any time from then until early spring, either in pots inside or out doors in beds.



Potted Hyacinth.

COMPLETE BULB CATALOG FREE ON REQUEST. It gives full information and is issued September 1 each year.

Special Cut Prices for January, February and March.

As these bulbs should be planted not later than March, we cut our prices in two to move our surplus stock quickly.

Pamphlet "HOW TO GROW BULBS" free with each order.

HYACINTHS

One of the most popular and beautiful spring flowering plants for indoor and outdoor decorations. For a spring display in the open ground they are unexcelled. Brilliant effects can be obtained by massing different colors.

Prices	Each	Doz.	100
Named, any color.....	\$.10	\$1.00	\$7.50
Mixed, all colors.....	.06	.60	4.00
Dutch Romans, mixed.....	.04	.40	2.75

NARCISSUS, DAFFODILS AND JONQUILS

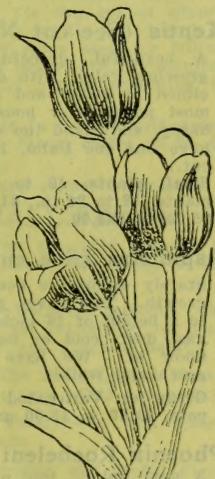
The Narcissus affords perhaps more pleasure and satisfaction than any other flowering bulb. They are very beautiful, very hardy, bloom freely, are delicately fragrant, thrive in almost any soil, and last for years without resetting. They may be grown in garden beds, among hardy plants in herbaceous borders, or "naturalized" on large grounds and along paths or walks. The flowers of the different types are beautiful and of graceful forms, with a variety of color combinations, and many are delightfully fragrant.

Single or Double Named Varieties, Separate. Each, 5c; dozen, 40c; 100, \$2.50
Good Mixture of Single or Double or both varieties. Dozen, 30c; 100, \$1.75

TULIPS

No other flower excels the Tulip in beauty of form, brilliancy of color, effective bedding and gorgeous show. They are equally desirable for bedding as well as for pot culture indoors.

Single or Double Named, Separate colors. Per dozen, 30c; 100, \$2.00
Good Mixture of Single or Double, all colors. Per dozen, 25c; 100, \$1.50



Single Tulips.



CHINESE SACRED LILY

The fragrant flowers are of a satiny white color, with golden yellow cups. These lilies produce a profusion of bloom in an incredibly short time, usually not more than four to six weeks from the time of planting. This splendid flower increases in popularity every year.

Culture.—Chinese Lilies are usually grown in bowls or dishes of water. Put an inch or two of sand and gravel in a dish, set the bulbs on this, and put enough fancy pebbles, gravel or shells around them to keep them from falling over; fill the dish with water and set in a dark closet for a few days, until the roots start freely, then bring them to the light and keep in an ordinary living room.

Note.—Before planting these bulbs, cut all the old dry brown root off.

Each 10c; six for 50c

CROCUS

These bright, charming little flowers bloom very early in the spring, which makes them most welcome, and they should occupy a prominent place in every garden. When planted in borders or beds in one or more colors the effect is striking. No spring display surpasses that of the Crocus.
Named, White, Purple, Yellow or Striped. Dozen, 10c; 100, 75c
Mixed, White, Yellow, Purple, Striped. 2 doz., 15c; 100, 50c

SNOWDROPS

The first flower to bloom in the spring, producing small but beautiful white blossoms before other outdoor plants are started. They come up from year to year and need not be disturbed until they become crowded.

Double, dozen, 20c; 100, \$1.50. Single, dozen, 15c; 100, 75c

Our Complete Bulb Catalogue Free on Request
Gives full description of all flowering bulbs and regular prices. Issued Sept. 1 each year.

BULBS FREE—With every cash order of \$2.00 or over received BEFORE MARCH 1, 1913, buyer can select 50c worth of above bulbs FREE OF CHARGE if NO OTHER PREMIUM IS ASKED FOR.

PALMS AND DECORATIVE POT PLANTS

Every one knows how beautiful palms and decorative plants are, and how much they improve the parlor, hall or dining room. We offer here only the best and most desirable kinds of the easiest culture, but we can supply rare and tender specimens if wanted.

Specimen Plants. Read note bottom next page as to size, etc.

Araucaria Excelsia

(Norfolk Island Pine)

This beautiful plant resembles the pine somewhat in appearance, though much finer in texture; it is particularly adapted to parlor table decoration. It is most unique in appearance, the branches being arranged in neat, symmetrical whorls. They do not require much sun, and are hardy and easily cared for. (See cut No. 5.) Choice potted plants, 9 to 12 in., \$1.00 to \$1.50; 15 in., \$2.00; 18 to 24 in., \$2.50 to \$4.00.

Kentia (See cut No. 6)

A beautiful, graceful, handsome-looking, strong-growing Palm, with deep green, crisp foliage; inclined to dwarf and spreading habit. One of the most popular for house culture, as they are very hardy, and stand the dry atmosphere. If we could have but one Palm, it would be a Kentia. (See cut.)

Small plants, 12 to 15 in., 75c to \$1.00; large plants, 18 to 24 in., \$1.50 to \$2.00; specimen plants, \$5.00 to \$25.00.

Aspidistra (See cut No. 4)

Stately decorative house plant of rapid and hardy growth. The leaves grow quickly from the ground to a height of 18 inches or more. Will stand more gas, dust, cold or heat than any other Palm we know of. We have both green and variegated green and white.

Green or Variegated Leaves, fine specimens, in pots, \$1.50 to \$3.00 and up.

Phoenix Roebeleni (See cut No. 7)

A new Palm. One of the most graceful and the hardest. The horticultural world has enthused



No. 4, Aspidistra. 5, Araucaria Excelsior. 6, Kentia Palm.

over this beautiful Palm. It has the grace and lightness of Cocos Weddelliana, but is more robust in growth and has ten-fold the foliage of that fine variety. Foliage from the ground up, gracefully recurved and spreading in habit. It will be most popular for house decoration.

Choice potted plants, \$1.00 to \$2.00; specimens, \$2.50 to \$4.00.

Rubber Plant (Ficus Elastica) (See cut No. 8)

This is certainly one of the best plants grown for decorative purposes. It succeeds well with ordinary treatment. Its glossy, thick, dark-green leaves are not affected by dust or gas.

Choice potted plants, 12 to 15 in., 75c to \$1.00; 18 to 24 in., \$2.00 to \$2.50.

Dracaena Indivisa (Fountain Plant)

This plant is unsurpassed for hardiness. Leaves graceful, long, narrow and pointed, used extensively for centers in pots, boxes or urns with other plants. Perfectly hardy outside in summer.

Nice plants, 12 to 15 in., 35c to 50c; 18 to 24 in., \$1.00 to \$1.50.

Cocos Weddelliana (See cut No. 9)

The most elegant and graceful of all the smaller Palms. Its slender, erect stem is freely furnished with its graceful arching leaves of rich green color. Small plants are very desirable for centers in fern dishes.

Choice potted plants, 12 in., 50c to 75c; 15 to 18 in., \$1.50 to \$2.00. Specimens, \$3.50 to \$5.00.

BAYS AND BOX.

For prices on Bay Trees, Evergreen Box, etc., in tubs, write.



No. 7, Phoenix. 8, Rubber Plant. 9, Cocos Palm.

JARDINIERES, POTS, JAPAN TUBS, ETC.—We carry a full stock. See pg. 110.

CANARY BIRDS

Did you ever hear an imported Hartz Mountain Canary sing? They are the sweetest singers on earth. We import the finest stock. (See page 126.)

BEAUTIFUL FERNS

A home, no matter how lavishly furnished, is not complete without decorative plants and palms.

The bold, majestic palms and delicate, feathery foliage of the ferns, lend a grandeur and magnificence that cannot be obtained in any other way, and no decoration, whether in the conservatory, hall, parlor or dining room, is complete without them. We offer a choice collection that will succeed under the most ordinary conditions.

Ostrich Plume (See cut)

The fronds of this popular variety are the most delicate and plume-like. They are beautiful, full and fluffy, well-grown plants; are truly magnificent and last well in the house.

Choice plants, 20c to 35c, postpaid; specimen plants in pots, \$1.00 to \$2.00; extra large, \$2.50 to \$3.50

Boston Fern

One of the most beautiful and useful of house plants. It is of easy culture, and its sword-like fronds, in large specimens, attain a length of 3 to 4 feet, produced in a bewildering mass, arching, curving and interlacing in every conceivable direction.

Choice plants, 20c to 35c; postpaid. Specimen plants in pots, 75c to \$1.00; \$1.50 and up to \$2.50

Asparagus Sprengeri (Emerald Feather)

(See cut No. 1)

This is undoubtedly one of the handsomest and most valuable evergreen trailing plants for the house and conservatory ever introduced. It is especially valuable for pots, vases, baskets, etc., covering all with its beautiful sprays of lovely green, feathery foliage; quite hardy and valuable for hanging baskets or porch boxes in summer if given partial shade and plenty of water.

Choice plants, 20c to 30c, postpaid. Specimen plants in pots, 35c to 75c. Extra large pots or baskets, \$1.50 to \$2.50.

Asparagus Plumosus (Climbing Lace Fern)

(See cut No. 3)

A finer and more delicate plant than the Sprenger, but hardy and easily grown. Very satisfactory for window and house culture. An extremely graceful window climber, bright green, feathery foliage, as fine as the finest silk or lace. The fronds retain their freshness for weeks when cut, and are greatly admired for floral decoration.

Choice plants, 20c to 30c, postpaid. Specimen plants in pots, 35c to 75c.

Maiden Hair Fern (Adiantum Cuneatum)

A very beautiful, dainty and graceful fern.

Small plants, 20c, postpaid; choice potted plants, 35c to \$1.00 each.



Ostrich Plume Fern

FILLED FERN DISHES

These are pretty, popular, fashionable and very desirable for center pieces for the tea or dinner table or as ornamental plants on the side-board or center tables. Most of the ferns used for filling these dishes are described below and it requires from five to seven or eight plants, according to size of dish.

A choice collection of plants in pretty matt green dishes \$1.50 to \$2.00. In fancy dishes \$2.00 to \$3.50. (See Cut No. 2.)

NOTE.—Must go by express; cannot be mailed.

BEAUTIFUL SMALL FERNS

These handsome little Ferns are used mostly in filling fern dishes, your choice 20c each; 3 for 50c, postpaid.

ASPIDIUM TSUSSIMENSE.—Without question the most valuable of all ferns yet introduced for fern dishes; of strong but dwarf and graceful habit.*

CRYPTOMIUM FALCATUM (The Holly-Leaved Fern).—One of the most desirable, very hardy and pretty.

PTERIS ARGYREA (Silver Fern).—A very showy Fern, with variegated foliage.

PTERIS WILSONI.—A very pretty and useful Fern; green leaves with the ends very peculiarly crested; beautiful sort for fern dishes.



NO. 1, Asparagus Sprengeri. NO. 2, Filled Fern Dish. NO. 3, Asparagus Plumosus.

Specimen Plants

THESE ARE LARGE, CHOICE, WELL-SHAPED PLANTS, GROWING IN POTS, AND ARE VERY BEAUTIFUL. WE WRAP AND PACK CAREFULLY AND THEY GO BY EXPRESS AT BUYER'S EXPENSE.

ANNUAL FLOWERING PLANTS FOR POTS OR GARDEN



Banora Collection Giant Carnations

Price, 20c each; set of 8 sorts, \$1.25 postpaid.

Afterglow.—Producing all season large cerise-colored flowers in great freedom.

Banora.—White ground prettily flaked with scarlet. A beautiful fancy variety.

Bonfire.—A splendid new scarlet Carnation which blooms throughout a long season. Flowers large, finely formed, delightfully scented.

Mrs. C. W. Ward.—Color soft pure rose, so much admired by cut flower purchasers; flowers large, well formed, fine blooming.

May Day.—This Carnation has that exquisite shade of pink so greatly in demand. Form, size and calyx grand.

Pink Delight.—Crisp and beautifully formed flowers of a delicate salmon flesh color.

Ruby.—The largest and best of its color, a bright dazzling crimson. A wonderfully free bloomer, always full of buds.

Shasta.—A beautiful pure white, of excellent texture and extreme size. Very free flowering with blooms conspicuously displayed.

Victory Collection Everblooming Carnations

Price, 15c each; 12 for \$1.25 postpaid.

Beacon.—A bright, deep scarlet; soft, yet brilliant.

Enchantress.—Flowers extra large, on long stems. The color is a superb shade of flesh pink.

Eldorado.—A beautiful fancy sort, most distinct in color, which is a bright yellow nicely flaked and streaked with crimson.

Dorothy Gordon.—Large, rose pink flowers, exquisitely fragrant.

Lady Bountiful.—Color pearly white; very large; delicately fringed.

Mrs. Thomas W. Lawson.—Simply superb, both in form and color; brilliant dark pink; of immense size.

President Roosevelt.—Magnificent, bright, rich crimson; large, perfectly double flowers, deeply fringed.

Victory.—Color richest shade of intense scarlet ever seen in a carnation; flowers massive.

White Enchantress.—A beautiful white sport from the famous pink Enchantress.

Winona.—Rich bright pink of glistening texture, superb free flowering sort.

White Perfection.—The grandest white and the most prolific bloomer of the Carnation family.

Winsor.—The handsomest of all pink Carnations; perfect in shape.

Matchless Collection Japanese Chrysanthemums

Price, 15c each; sets of 10 sorts, \$1.00 postpaid.

Adonis.—Immense globes of silvery pink, narrow petals reflexing and interlacing most beautifully and forming an enormous flower of great depth. Of silky finish.

Charles Raser.—Elegant snow-white incurved blooms of fine size and build. Comes on long stout stems, grandly clothed with luxuriant foliage. One of the finest new sorts.

C. H. Totty.—Large, fluffy flowers of a glowing chestnut scarlet; reverse of petals shaded gold. Finest red variety to date.

Crocus.—Very large, broad petaled flower of a delightful canary yellow color. Nicely incurved, good habit of growth.

Matchless.—Largest and most beautiful dark crimson scarlet yet raised; looks like crimson velvet; the color long desired.

Mrs. Wm. Arnold.—Immense white globes as deep as wide. Petals broad twisting and curling into a most beautiful flower. One of our finest exhibition varieties.

Polypheine.—A gem in every sense of the word; magnificent in size, form and color. Its informal character of build and rich canary yellow color need only to be seen to be appreciated.

Thanksgiving Queen.—Large broad reflexing petals opening in a globe-shaped flower of fine size and build. Color creamy white.

Unakie.—A grand new incurved Japanese variety of a beautiful silvery rose color. One of the most beautiful.

Wells Pink.—Another superb new pink variety bearing profusely large flowers of a fluffy reflexed form. Grand foliage and stem. Fine for cutting.



Mrs. Wm. Arnold.

Beautiful Geraniums

SINGLE, as follows: Price, 10c each; set of 12 sorts, \$1.00 postpaid.

Beaute Poitevine.—Very large, semi-double flowers of a brilliant salmon color.

Bertha Pressily.—Exquisite silvery pink, large flowers, one of the best.

Francois Magnard.—Fine, bright magenta shade, flowering very freely in large trusses.

Francis Perkins.—The grandest bright pink bedding variety to date, exquisite.

Fleur Poitevine.—Rosy, carmine, marbled and striped with white; fine, free bloomer.

Heteranthe.—A fine bedding variety, color, bright vermillion red of a most pleasing shade. Trusses very large, often measuring six inches in diameter.

John Doyle.—Very large, double bright, velvety scarlet, charming variety.

La Favorite.—Trusses very large; flowers pure snow white; a favorite.

Madame Ch. Dabouche.—Extremely free in bloom, with enormous trusses composed of large round flowers. Color, bright rose, shading to apple blossom.

Mme. Jaulin.—A truss of grand size, composed of very large florets, the centers of which are delicate pink, bordered with pure white.

S. A. Nutt.—The best of the rich, dark crimson varieties; very popular.

DOUBLE, as follows: 10c each; set of 12 varieties, \$1.00 postpaid.

Andrew Lang.—Very large, full trusses of bright, velvety scarlet flowers; upper petals heavily shaded with white toward the center.

Dr. Levanasseur.—An orange cerise marked with lilac; one of the best.

Gertrude Pearson.—Pure rose-pink, with conspicuous white blotch on two upper petals; flower beautifully formed, and the largest of its color.

James Kelway.—A most beautiful crimson scarlet, of fine size and satiny texture.

Jacquierie.—Rich, vivid crimson; immense trusses. Excellent for bedding; blooms freely, stands the sun well and is a rarely beautiful flower.

Leon Perrault.—Flowers vivid scarlet, with white eye; very attractive.

Madonna.—Beautiful pink upper petals, marked with white; very pretty.



Single Geranium.

Six Choice Fuchsias

Price, 10c each; set of 6 sorts, 50c

Annie Earle.—Tube and sepals waxy white; corolla single, clear carmine; plant splendid and free blooming.

Dr. Brooks.—Rich, dark blue corolla, with crimson petals. A beautiful variety; never out of bloom.

General Roberts.—Flowers very large, corolla plum color, tube and sepals crimson; one of the finest varieties.

Jupiter.—This is a grand mammoth double flowered Fuchsia; flowers of enormous size, very large, rich violet corolla; tube and sepals bright crimson.

Trailing Queen.—Of a drooping or trailing habit, a fine plant for hanging baskets, vases, etc.; tubes

Mrs. E. G. Hill.—Very large trusses; color, clear salmon, with a white center; one of the finest and most distinctive varieties.

Mrs. J. M. Garr.—A grand single white; plants a mass of white bloom.

Mrs. A. Blanc.—Silver salmon, shaded peach; glistening texture; charming.

Sam Sloan.—Rich purple crimson variety. One of our finest dark varieties.

Van Beneden.—Fine large flowers, lower petals rich violet, bordered with scarlet, upper petals orange scarlet, very distinct.

and sepals rosy scarlet; corolla violet purple.

White Giant.—Superb double white variety; tube and sepals bright scarlet; corolla large, double and waxy white.

Crego Aster Plants

Next to Geraniums, asters are the most popular summer flowering plant. We have made arrangements for 50,000 new CREGO ASTER PLANTS. This beautiful new free flowering Aster is one of the best for general planting, is a strong, healthy grower and each plant will produce from 12 to 15 long stemmed flowers of the most graceful and pleasing style. (See cut pg. 48.)

Price, choice transplanted plants. White, Pink, Rose, Purple or Mixed, 40c per dozen; \$3.00 per hundred postpaid.

Flowering Begonias

Beautiful flowering plants of easy culture for the house.
10c each, 6 for 50c, postpaid.

Argentea Guttata.—Handsome erect growing sort, with pointed wine-colored leaves with silvery white spots. Clusters of pure white flowers.

Cuprea.—A fine, erect Begonia, with dark, rough leaves; the panicles of unopened flowers are bright red, with surface like plush.

Foliosa.—The freest-flowering Begonia we have. Makes a handsome window plant, with its glossy green leaves and bright pink flowers.

Gracilis Luminosa.—Exceptionally sturdy and vigorous, and one of the choicest. Bright scarlet flowers cover the plant from the ground up.

Incarnata.—A strong, vigorous growing sort, bearing immense pendants of pretty pink flowers. A splendid Winter-blooming variety for the house.

Marguerite.—Bronzy green, with purple cast; large trusses of cream and rose-colored flowers.

Rex Begonias

Grown for the beauty of their foliage. The most ornamental of window plants. We offer the most distinct and handsomely marked varieties.

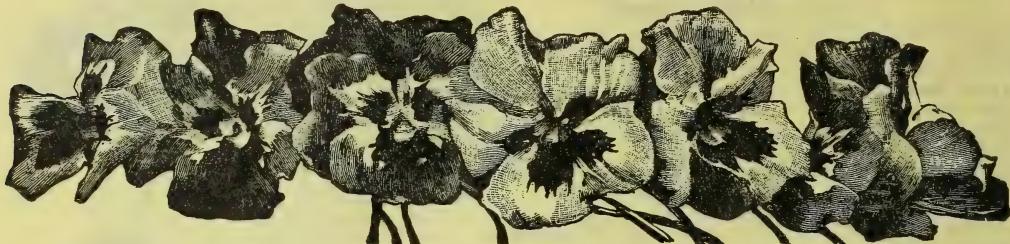
Price, choice plants, 25c each, postpaid



Flowering Begonia.

General Price List of Bedding Plants

Note.—"P" stands for plants from pots; "T" transplanted plants from boxes.

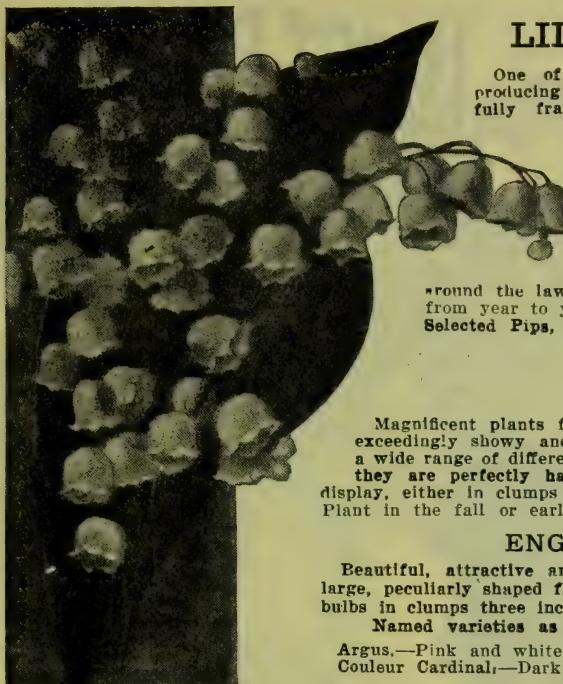


During April and May we have thousands of flowering and ornamental annual plants. No order too large or too small. Write for 100 prices.

Remember, we are not offering you little seedling plants, pulled from the seed beds. Our plants are strong, healthy, transplanted plants from flats or pots, raised from our highest quality seed or propagating plants of superior merit. For descriptions see flower seed department.

	Each	Doz.	Each	Doz.
Ageratum— Blue, white or mixed, T.....	.05	.50	Blue, 3 inch pots .....	.15
Alyssum— Sweet, T .....	.05	.50	Blue, 4 inch pots .....	.20
Aster— Giant Crego, T .....	.40		Lobelia— Compacta or Trailing, T (\$3.00 100) ..	.05
All transplanted, White, pink, rose, purple or mixed.			2 inch pots, blooming.....	.08
Common sorts .....	.25		3 inch pots, full bloom.....	.15
Candytuft— Mixed, T .....	.05	.50	Marigold— Fine Mixed, F .....	.05
Mixed or white, T.....	.05	.50	Mignonette— Sweet, T .....	.05
Mixed or white, P.....	.10	.75	Sweet, 2 inch pots.....	.10
Carnation— White, Pink, Red, F or P.....	.10	.75	Myosotis— Forget-me-not (clumps) .....	.10
Named varieties (see page 8). .			Nasturtium— From 2 inch pots .....	.07
Cockscomb— Mixed, T .....	.05	.60	Pansy— 12 in a basket, choice.....	.50 to .60
Chrysanthemum— White, Yellow, Pink, F.....	.06	.60	12 in a basket, Steel's Mastodons.....	.75 to 1.00
White, Yellow, Pink, P.....	.10	.75	Petunia— Irvington Beauty, new pink.	
Named varieties (see pg. 8) P.....	.15		Single Ruffled Giants, all colors.	
Coreopsis— Young Plants, T .....	.05	.60	Choice Double Kinds, all colors.	
Cosmos— Red, Pink, White, or Mixed, T.....	.05	.50	From 2 inch pots.....	.10
Cobe Scandens— From 2 inch pots .....	.15	1.50	From 3 inch pots.....	.20
From 3 inch pots .....	.20	2.00	From 4 inch pots.....	.25
Coleus— Choice colors, 2 inch pots.....	.10	.75	Ordinary Single Mixed, T.....	.05
Choice colors, 3 inch pots.....	.15	1.50	Double Mixed, T .....	.05
Choice colors, 4 inch pots.....	.25	2.50	Phlox— Drummondii, T .....	.05
Daisy— Mrs. Saunders, new, 2 inch pots....	.15	1.50	Salpiglossis— Mixed, T .....	.10
Mrs. Saunders, new, 3 inch pots....	.25	2.50	Salvia (Scarlet Sage)— Splendens, T .....	.06
Queen Alexandria, White— From 2 inch pots.....	.10	1.00	Zurich, a Fireball, new dwarf, T .....	.07
From 4 inch pots.....	.20	2.25	2 inch pots .....	.10
Dracaena Palm (Fountain Plant). See pg. 6.			3 inch pots .....	.15
Geraniums— Single: General Grant, red; Mrs. E. G. Hill, sal- mon pink; M. Riral, deep pink; Mad. Chopatin, light pink; Mary Barton, white.			4 inch pots .....	.25
Double: S. A. Nutt, dark red; Trego, bright red; Mad. Landry, salmon pink; Mad. Buchner, double white; Ivy Leaved Trailing, pink or red.			Stocks— Fine Mixed Colors, T.....	.05
From 2 inch pots.....	\$.10	\$1.00	Verbena— Fine Mixed, T .....	.06
From 3 inch pots.....	.15	1.50	From 2 inch pots.....	.10
From 4 inch pots.....	.25	2.50	From 3 inch pots.....	.15
From 5 inch pots.....	.35	3.75	Vinca— Variegated, from small pots.....	.10
Hal Cain, new mammoth flowers, sin- gle bright orange red.			Varietated, from large pots.....	.20
From 2 inch pots.....	.15	1.50	Zinnia— Mixed, T .....	.60
From 3 inch pots.....	.20	2.00	PLANT BOXES. We sell boxes painted green, either empty or filled with good rich dirt and choice plants in bloom from pots.	
From 4 inch pots.....	.25	2.50	Size 3 feet Empty \$1.50 Filled \$5.50	
From 5 inch pots.....	.35	3.75	Size 4 feet Empty 1.75 Filled 6.00	
Pelegonium (Lady Washington).			Size 5 feet Empty 2.25 Filled 7.00	
From 2 inch pots.....	.10	1.00	Size 6 feet Empty 2.75 Filled 8.00	
From 3 inch pots.....	.15	1.50	If you have boxes that are filled with dirt, we can furnish Wilgrow and Plants, and plant at 60¢ to \$1.00 per foot, according to kind and size of plants.	
From 4 inch pots.....	.25	2.50	JAPANESE KEGS. Filled with large flowering plants and vines.	
From 4 inch pots, specimen in bloom .....	.50		Size 13 in. \$3.00 to \$5.00 with Dracaena center	
From 5 inch pots, specimen in bloom	1.00		Size 13 in. 2.50 to 3.50 with Daisy center	
German Ivy— Trailing, 2 inch pots.....	.10	1.00	Size 20 in. 5.00 to 6.00	
Trailing, 3 inch pots.....	.15	1.50	HANGING BASKETS. Filled with large flowering plants and vines.	
Heliotrope— Blue, T .....	.07	.60	Size 10 in. \$2.00 to \$2.25 Delivery	
Blue, 2 inch pots .....	.10	1.00	Size 12 in. 2.50 to 3.00 25¢ extra.	

At prices above all plants go by express or freight at buyers' expense. No plants C. O. D. Write for prices by the 100 or 1000.



Lily of Valley (Spray)

LILY OF THE VALLEY

One of the most charming spring flowering plants, producing in profusion its delicate bell-shaped, delightfully fragrant white flowers. Valleys thrive in any common soil, and will do well in shady situations, where few other plants will succeed. Highly prized for cutting purposes, and exceedingly well adapted for flowering in pots in the winter. Can be forced to bloom in four to six weeks from time of planting. Plant 6 pips to a 6-inch pot.

They are perfectly hardy and most charming planted in beds or borders around the lawn, where they can remain, increase and bloom from year to year. Ready from November 15 to April.

Selected Pips, for forcing indoors or planting outside.

Each 5c; dozen 40c; per 100 \$2.50

IRIS

Magnificent plants for the garden. They bloom profusely and are exceedingly showy and fragrant. The colors are brilliant and cover a wide range of different shades and combinations. In the open ground they are perfectly hardy, increase rapidly and make a magnificent display, either in clumps or borders. They do best in rich, moist soils. Plant in the fall or early spring.

ENGLISH IRIS—Anglica

Beautiful, attractive and worthy of a place in every garden. Their large, peculiarly shaped flowers remind one of the rare orchids. Set the bulbs in clumps three inches apart each way and three inches deep.

Named varieties as follows: Each, 6c; dozen, 50c; 100, \$3.00

Argus.—Pink and white.

Couleur Cardinal.—Dark blue.

Superfine Mixed.

Mont Blanc.—Pure white.

Thackeray.—Rich claret color.

Washington.—Pale lavender.

Each, 6c; dozen, 30c; 100, \$1.50

SPANISH IRIS—Iris Hispanica

One of the most satisfactory varieties of Iris to grow, being very hardy and equally good for forcing indoors or garden culture. The flowers are of great beauty, having many different blendings of colors, and if cut when in the bud will last a long time in water. (See cut.)

Named varieties as follows: Each 3c; dozen, 25c; 100 \$1.50.

Belle Chinoise.—Best golden yellow.

British Queen.—Large, pure white; extra.

Helena.—Beautiful light blue.

Leonidas.—Dark violet blue.

Thunderbolt.—Velvety dark bronze; large flowers.

Superfine Mixed, Ea. 3c; dozen, 20c; 100 \$1.00

GERMAN IRIS—Iris Germanica

These are perfectly hardy, thrive anywhere, grow and bloom luxuriantly, and are remarkably rich and beautiful in color and graceful in form, deliciously fragrant and fine for cutting.

Named varieties as follows: Ea. 10c; dozen, \$1.00; 100 \$9.00

Bouquet Royal.—Silver, white, and pencilled yellow.

Gloire de Hillegom.—Beautiful light blue, falls shaded darker.

Empress Victoria.—Standards satiny violet, falls velvety purple.

Honorable.—Rich yellow, falls yellow shaded, pencilled crimson.

Aurora.—Beautiful primrose, very desirable.

Maori King.—Standards golden yellow; falls velvet crimson-edged yellow.

Shakespeare.—Standards straw yellow, veined brown; falls carmine violet.

Spectabilis.—Violet, shaded purple.

Faultieb.—Pure clear rose, shading to white.

Fine Mixed.—All colors assorted. Each, 8c; dozen, 85c; 100 \$8.00

JAPAN IRIS—Kaempferi

The Japanese Iris is quite distinct from all others, and never fails to excite the admiration of all who see it. It is becoming more popular each year. The enormous flowers display a marvelous blending of rich and rare shades. We offer named varieties in the following shaded colors: Blue, Lavender, Red, White and Variegated.

Separate Colors. Each 20c; dozen \$2.00 Mixed, good assortment. Each 15c; dozen \$1.50

IRIS

No. 1. Spanish

No. 2. German

No. 3. English

No. 4. Japanese



**Hardy
Phlox,**

One of our
most desirable
plants. See
page 15.

You Should Plant More Perennials

No class of plants enjoy greater popularity at the present time than the Hardy Perennials. They have made rapid strides into public favor the past few years, until now they may be considered to have a prominent and a permanent place in our American gardens. Beginning almost before the snow is off the ground, early-flowering varieties open their blossoms, as welcome harbingers of spring. Almost every week until late in the fall some new variety bursts forth into entrancing loveliness, blooming so persistently as to almost defy Jack Frost in his efforts to subdue the floral kingdom. A start may be obtained at so small an expenditure as not to be counted when measured with the satisfaction and pleasure derived from them. Once planted they are there to stay, requiring very little care, increasing in size and bloom and growing better from year to year.

VERY LARGE CHOICE PLANTS—LOW PRICES.

This year we are in a position to supply you with the most desirable, new and popular varieties at lower prices than ever. We have 25,000 extra large field-grown plants in the following varieties, also many other kinds which limited catalog space will not permit us to describe.

PRICES THIS YEAR: All perennials unless otherwise priced are 15c each, \$1.50 per dozen, by express or freight at purchaser's expense. Small clumps by mail: Add 5c extra per clump for postage.

ALYSSUM—Gold Dust

Saxatile Compactum.—Large heads of golden yellow flowers in May and June; silvery foliage; fine for rockeries; 6 inches.

ANCHUSA—Sea Bugloss

Italica (Italian Alkanet).—A strong-growing plant, 3 to 4 feet high, with broad foliage and large terminal heads of deep blue flowers the entire season.

ANEMONE—Japonica

These beautiful Windflowers are one of the most important hardy plants. They begin blooming early in August and continue in full beauty until cut down by hard frost.

Whirlwind.—Large semi-double pure white flowers; very free.

Prince Henry.—Large, semi-double, deep rich pink flowers.

Rosea Superba.—Delicate silvery-rose; remarkably free flowering.

ALTHEA ROSEA—See Hollyhock, p. 14

ANTIRRHINUM—Snapdragon

Fine, hardy garden plant. Spikes of gaily colored, curiously formed flowers in great abundance. Excellent for cutting and keep fresh a long time. 18 inches. White, yellow, red, salmon or mixed.

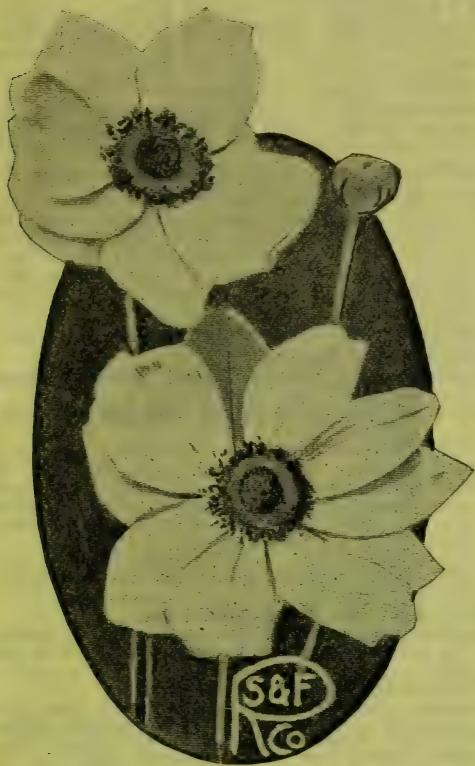
AQUILEGIAS or Columbines

The Columbines are one of the most elegant and beautiful of hardy plants, producing their graceful spurred flowers on stems rising two feet or more above the beautifully divided foliage, and are highly prized for cutting; June to September. Mixed Blue, White, Yellow and Rose.

ARABIS—Rock Cress

Alpina.—One of the most desirable of the very early spring flowering plants that is especially adapted for edging and for the rock garden, but which succeeds equally well in the border, where it forms a dense carpet, completely covered with pure white flowers. 6 inches.

Hardy Perennial Flowering Plants—Continued



Anemone.

ASTERS—New Hardy Asters

Amellus Hybridis.—The finest type yet introduced. It grows about 15 inches high; the flowers are very large and are produced very freely during July and August. Blue.

BABY BREATH—See *Gypsophila*, pg. 14

BELLFLOWER—See *Campanula*, also *Platycodon*, page 15

BELLIS PERENNIS—English Daisy

Giganteum.—Improved, double, large flowering; fine for edging or borders. Flowers extra fine. 2 inches across.

Common English.—Double white or pink
Each 10c; doz. \$1.00

BOCCONIA—Plumed Poppy

Cordata.—Enormous panicles of buff or creamy white flowers borne above large, heart-shaped leaves; July to September. 6 to 8 feet. Each 20c; doz. \$2.00

CAMPANULAS, or Bellflowers

Indispensable hardy garden flowers, of much variety of form, some being of tall and imposing habit, while others are dwarf, compact little plants suitable for edging, rockwork, etc.

Persicifolia (Peach Bells).—Large bell shaped flowers during June and July. 3 feet. Blue or white.

Medium Calycanthema (Cup and Saucer Canterbury Bells).—A beautiful form of this favorite flower. Blue, Rose, White or mixed.

Gigantea Moerheimi.—A grand sort with long stems of pure white double camellia-like flowers. 2 to 2½ inches in diameter; in bloom from the middle of May until late in July. 2 to 3 feet.

Each 25c; doz. \$2.50

BLEEDING HEARTS—See *Dicentra*

CANDYTUFT—Perennial. See *Iberis*, p. 14

PRICES—All varieties, strong, field-grown plants, 15c each, \$1.50 dozen, unless otherwise priced.

CARNATIONS—Hardy Garden. See *Dianthus* below

CHAMPAEPEUCE—Ivory Thistle

Interesting and ornamental thistle-like plants with spiny, neatly marked foliage. Very decorative large flowers. 3 feet.

Diacantha.—Bright green foliage; ivory-white veins and spines. Each 25c; doz. \$2.50

CHRYSANTHEMUM

Hardy Pompon.—The hardy Pompons are rapidly coming into general favor as bedding plants. Flowers are very double, but small compared to the Japanese, but borne in great profusion from September to frost. Yellow, Dark Rose or Red.

Ulinosinus.—Grows 2 feet high, with thick foliage and bearing its large, glistening white flowers during September and October.

Japanese Fancy Varieties—(See Annual Flowering Plants).

CHRYSANTHEMUM MAXIMUM—See Shasta Daisy, page 15

COLUMBINE—See Aquilegia, page 12

COREOPSIS

Lanceolata Grandiflora.—Popular hardy plants. The flowers are a rich golden-yellow, of graceful form and invaluable for cutting; the main crop comes during the latter part of June, but it continues in bloom the entire summer and autumn; it succeeds everywhere; 2 feet.

DAISY—See "Bellis" for English, also "S" for Shasta Dasiy

DELPHINIUM—Hardy Larkspur

These are deservedly one of the most popular subjects in the hardy border, bold, attractive and highly prepossessing plants of easiest culture; perfectly hardy.

Light or Dark Blue or mixed.

Belladonna.—The freest and most continuous blooming of all, never being out of flower from the end of June until cut down by hard frost. Flowers clear turquoise blue. Each 20c; doz. \$2.00

DIANTHUS—Hardy Carnations

Caryophyllus.—Hardy Carnation, in colors of red, white and pink. 1½ feet. Mixed.

Plumarius Semperflorens.—Very fragrant flowers; large, double and pure white. Blooms very freely on long steams and unexcelled for cutting.

DIANTHUS BARBATUS—See Sweet William, page 15

DIANTHUS LANCINIETUS—See Pinks

DICENTRA—Bleeding Heart

Blooms in spring and has long, graceful racemes of rosy red flowers, with protruding white inner petals. 3 feet. Each 25c

DIGITALIS—Foxglove

Old-fashoined, hardy, desirable plants with broad foliage and showy flowers borne on spikes. June and July. 3 to 4 feet. Mixed colors.

Monstrosa (Giant Foxglove).—Handsome various-colored flowers in spikes surmounted with one large, saucer-shaped terminal flower.

DORONICUM—Leopards Bane

One of the most effective early flowering perennials. Very large, rich yellow single flowers with a dark center borne on long stems during May, June and July. 2 feet.

Hardy Perennial Flowering Plants—Continued

ERYNGIUM—Sea Holly

Handsome ornamental plants, growing from 2 to 3 feet high. Effective in flower and shrubbery border, woodlands, wild gardens, etc.; the thistle-like flower heads, which are produced from July to September, are useful to cut for vases or to dry for winter bouquets. Very decorative.

EULALIA

Japonica Variegata.—A very ornamental variety; long, narrow leaves, striped green, white and often pink or yellow.

Small plants 15c to 25c; clumps 50c to 75c each

FORGET-ME-NOT—See Myosotis

FUNKIA—Plantain Lily

The Plantain Lilies are among the easiest plants to manage; their broad, massive foliage makes them attractive subjects for the border even when not in flower. Variegated leaves.

FOXGLOVE—See Digitalis, page 13

GAILLARDIA—Blanket Flower

Grandiflora.—One of the showiest of perennials. Rich and pleasing flowers ranging from red to yellow around a dark maroon center; excellent for cutting. 3 feet. June to frost.

GEUM—Avens

Pretty border plants, growing about 18 inches high, and producing showy, bright-colored flowers the greater part of the summer and fall. Fine for bouquets.

Atrosanguineum.—Brilliant scarlet flowers.

GYPSOPHILA—Baby's Breath

Paniculata.—Minute white flowers borne in enormous quantity in open panicles during summer months. Be sure and have a few plants of this for cutting, as it works up beautifully in bouquets of other flowers. 3 feet.

Paniculata Fl. Pl..—New. Delicate double white flowers. Very pretty. Each 25c

GYNERIUM ARGENTEUM—See Pampas Grass, page 15

HELENIUM—Sneezewort

Very desirable border plants, succeeding in any soil in a sunny location, with broad-spreading heads of flowers, useful for cutting. Cover a long blooming season.

Hoopesi.—Pure orange-yellow flowers, 2½ inches across, and the earliest to flower, coming in early in June and continuing until fall. 2 feet.

HELIANTHUS—Hardy Sunflowers

Multiflorus Maximus.—A gigantic single variety, growing from 5 to 6 feet high, producing immense single golden-yellow flowers from 6 to 8 inches across; from August to September. One of the finest.

Rigidus.—One of the most desirable, beginning to bloom early and continuing until late. Golden-yellow, dark center. 3 feet.

Soleil d'Or.—Deep golden-yellow, quilled petals, not unlike a Dahlia. 4 feet. August and September.

HELIOPSIS—Orange Sunflower

Similar in general habit to *Helianthus*, but commencing to flower earlier in the season; of dwarf habit, rarely exceeding 3 feet in height; very valuable for cutting.

Pitcheriana.—The flowers are of a beautiful deep golden-yellow, about 2 inches in diameter, of very thick texture and a useful cut flower. Long season.

HEUCHERA—Alum Root

Sanguinea.—Small, scarlet flowers in large, graceful panicles. One of the best of the scarlet perennials; 18 inches; June to October.

HOLLYHOCKS

Few hardy plants combine as many good qualities as the Hollyhock. For planting in rows or groups on the lawn, or for interspersing among shrubbery they are invaluable. The flowers form perfect rosettes of the most lovely shades of color. We offer strong plants, which will flower this season. White, Pink, Yellow, Bright Red or Mixed Colors.

PRICES: All varieties, strong field-grown clump, 15c each, \$1.50 dozen, unless otherwise priced. By express or freight at buyer's expense.

HYPERICUM—St. John's-wort

Moserianum (Gold Flower).—Of drooping, trailing nature. Fine for rockeries, etc. Free flowering. Rich golden-yellow. June to frost.

IBERIS—Hardy Candytuft

Sempervirens.—Most desirable dwarf plants with evergreen foliage, which is completely hidden with dense heads of white flowers early in the spring.

IRIS—See our Bulb Catalog, or page 6

INCARVILLEA—Hardy Gloxinia

Delavayi.—One of the choicest perennial plants introduced in recent years. It produces large gloxinia-like rose-colored flowers, which last in perfection a long time; these are produced in clusters on stems 18 inches high; succeeds in sun or shade.

LARKSPUR—See Delphinium, page 13

LUPINUS—Lupine

Polyphyllus.—An effective plant, producing large long spikes of blue flowers.

Roseus.—A very pretty variety with rosy-pink flowers. Very effective. 3 feet.

LYCHNIS—Campion

Of the easiest culture, thriving in any soil. In high favor with lovers of hardy plants. Sometimes called Devil's Flower, Gardener's Delight, Gardener's Eye, Jerusalem Cross, Lamp Flower, Maltese Cross, Ragged Robin, etc.

Chalcedonica.—A most desirable plant, heads of brilliant orange-scarlet. Grows 2 to 3 feet high and blooms all summer.

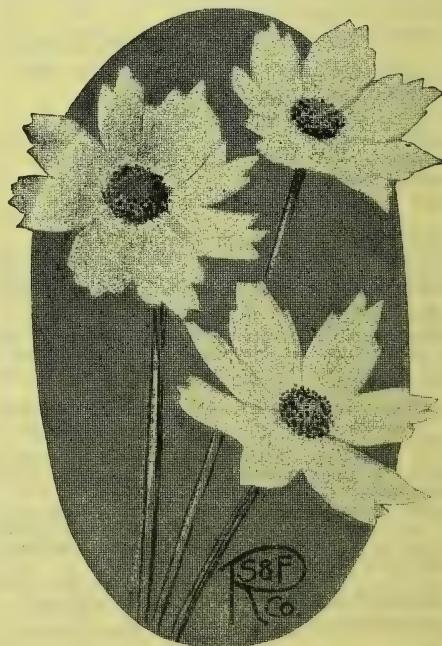
MYOSOTIS—Forget-Me-Not

Palustris Semperflorens.—A variety that is hardly ever out of flower; useful in a shady spot in the border.

PAPAVER—Hardy Poppy

Nudicaule (Iceland Poppy).—A beautiful race and among the most desirable of our herbaceous plants. The plant forms tufts of fern-like foliage, from among which the slender flowers-stalks rise to about a foot in height and bear fragrant, cup-shaped flowers of white, yellow and orange-scarlet. The profusion of blooms is astonishing. June to October

Oriентale.—Bright scarlet with a black blotch at the base of each petal. June to July. 2 to 3 feet.



Coreopsis Lanceolata.

Hardy Perennial Flowering Plants—Continued

PENTSTEMON—Beard Tongue

Most useful showy perennials, either for the border or rockery. Bear long, loose spikes of beautiful, bright trumpet-shaped flowers. Hybrida mixed.

PAMPAS GRASS

A noble ornamental grass, easily grown, producing long, narrow pointed leaves and majestic, silvery white plumes, which are very valuable for winter decoration. Grows 6 to 8 feet high.

Gynerium Argenteum.—Young plants, 50c to 60c; strong roots, 75c to \$1.50; large specimen plants, \$2.00 to \$5.00 up.

PHLOX

Decussata.—Among the hardy perennial plants no class is of more importance than the Phloxes, succeeding in almost any soil and position, and flowering through a long season. Excellent for cutting and decorating or for mass effects. Keep well in water. Choice varieties in Red, White, Pink or Lavender, 15c each, \$1.50 dozen. Select Named Varieties, 20c each, \$2.00 dozen.

PINKS—Hardy Garden

Old favorites, bearing their sweet clove-scented flowers in the greatest profusion during May and June. They are indispensable for the edge of the hardy border and for cutting. 1 foot. Finest colors. Mixed.

PLATYCODON—Japanese Bellflower

The Platycodons are closely allied to the Campanulas, and form neat, branched bushes of upright habit. Increase in size and beauty each year.

Mariesii.—Deep blue bell-shaped showers, nearly 3 inches across. July and August. 2 feet.

PRIMULUS—Primrose

The hardy primroses are among the most beautiful and interesting of our early spring flowers.

Dean's Hybrids.—Flowers are of the richest shades, from pure yellow to the deepest crimson maroon.

Vulgarus.—Perfectly hardy, growing 10 to 12 inches high, with yellow flowers 1½ to 2 inches.

PYRETHRUM

Too much can not be said in favor of this grand hardy perennial. Flowers single daisy-like in form and borne in profusion. June to fall. 3 feet. Splendid for cutting, lasting a week in good condition.

Hybridum.—All colors.

REHMANNIA

Angulata.—A noble herbaceous perennial from Central China, with tufted leaves and graceful spikes of rose-colored flowers similar to a Foxglove. 3 to 6 feet.

RHEUM—Ornamental Rhubarb

Palmarum Tanguticum.—Majestic foliage which, with liberal treatment, will grow 5 to 6 feet high; an excellent subject for the wild garden, large border or isolated clumps on the lawn. Each 35c

ROCK CRESS—See Arabis, page 12

RUDBECKIA—Cone-flower

Indispensable plants for the hardy border; grow and thrive anywhere, giving a wealth of bloom, which are well suited for cutting.

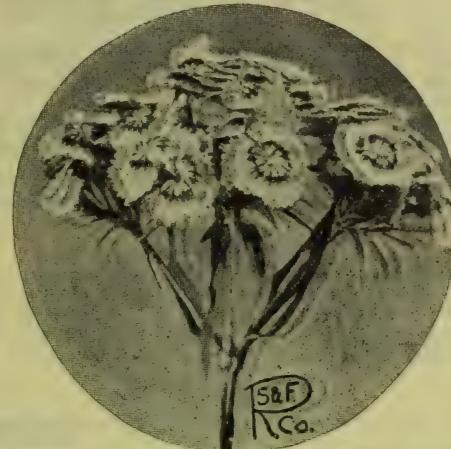
Lancineatus (*Golden Glow*).—Flowers beautiful golden-yellow; very double. Marvelous continuity of bloom from June till late fall. 6 to 8 feet.

Bicolor (*Newmannii*).—Dark orange-yellow flowers, with deep purple cone, borne on stiff, wiry stem 3 feet high; flowers single from July to October. Fine for cutting.

SHASTA DAISY

Chrysanthemum Leucanthemum *Daisy*.—Very large, daisy-like flowers, often measuring 4 inches across. Three or more rows of petals of the purest paper white and borne on single, stiff stems. 2 feet.

REMEMBER: All prices on above stock is 15c each, \$1.50 dozen (unless otherwise priced) and is for large 2-year, field-grown clumps, that will bloom profusely the first season.



Sweet William.

STOCKS

Hardy Varieties for local planting, white or pink.

STATICE—Sea Lavender

Most valuable plants either for the border or rockery, with tufts of leathery foliage and immense candelabra-like panicles of minute flowers in all colors, producing a remarkable effect; grows from 15 to 18 inches high, and blooms from June until September. Mixed. All colors.

SNAPDRAGON—See Antirrhinum, p. 12

SUNFLOWER—See Helianthus, p. 14

SWEET WILLIAM—Dianthus Barbatus

This fine old-fashioned flower is always desirable and makes a fine show in bloom, June to September. The new improved types are rich and charming. White, Salmon, Dark Red or Chinese Mixed.

THISTLE—See Chamaepence, page 13

TRITOMA—Red-Hot Poker.—

The early, free and continuous blooming qualities of the newer varieties have made Tritomas one of the great bedding plants. 3 to 4 feet flower spike.

VALERIANA—Spurred Flower

Coccinea.—Showy heads of rosy pink, flowers from June to October. 2 feet.

VIOLETS

California.—Single. Very showy and beautiful.

Double Russian.—Flowers double of gigantic size; color, a very rich shade of blue, and extremely fragrant.

Small Plants, single or double and blue or white. 10c each; \$1.00 per dozen

VINCA—Periwinkle, or Trailing Myrtle

Minor.—Dwarf evergreen trailing plant, used for carpeting the ground under shrubs and trees, or on graves where it is too shady for other plants to thrive. Small plants 15c each

Variegated.—Mostly used in hanging baskets, etc. Green leaves, edged white. 15c to 25c each

WALLFLOWERS

The old favorite fragrant Wallflower; mixed colors, including yellow, dark brown, etc.

YUCCA—Adam's Needle. See page 91

Everett, Wash., March 22, 1912.
Routledge Seed & Floral Co.

Dear Sirs: Received the basket of Iris Bulbs in fine condition and am delighted with them. Have always sent my orders East before, but it seems much more satisfactory to get them so near home. Yours sincerely,

MRS. W. F. SWALWELL.

ASPARAGUS ROOTS

One of the earliest and finest of spring vegetables; very easily grown. A bed once planted is good for years if properly attended to and well manured. Set plants 18 inches apart, in rows 3 feet apart.

One year old plants, postpaid, dozen 25c; 50, 75c; 100, \$1.00

By express or freight, dozen 20c; 50, 50c; 100, 75c; 1000, \$8.00

Two-year-old plants, postpaid, dozen 40c; 50, \$1.00; 100, \$1.50

By express or freight, dozen 25c; 50, 75c; 100, \$1.00; 1000, \$8.00

Buy Roots
and save
2 to 3
years



Asparagus

HOP VINES

English Cluster (the best sort).—Strong roots, postpaid, 5c each, 40c per dozen. By express 25c, per dozen, \$1.50 per 100. Low prices by the thousand.

Two-year-old, extra large transplanted cuttings, 10c each, \$1.00 dozen.



Rhubarb.

HORSE-RADISH ROOTS

This useful condiment is easily grown, and prefers a rich, moist loam. Plant in rows 18 inches apart, putting the sets one foot apart, being careful to place the thin end down in the ground. Postpaid 5c each, 40c per dozen. By express or freight, 25c per dozen, \$1.50 per 100. Low prices by the thousand

RHUBARB OR PIE PLANT ROOTS

(WINE PLANT)

Set roots 3 feet apart in rows 4 feet apart, in the richest ground you have or can prepare.

RHUBARB ROOTS

Varieties—Mammoth, Giant and Linnaeus

One-year-old roots, postpaid, each 8c; dozen 75c. By express or freight, dozen 50; 100 \$3.00.

Two-year-old roots, postpaid, each 15c; dozen \$1.50. By express or freight, dozen 75c; 100 \$5.00.

If wanted in larger quantities, write for special prices.

EVERBEARING CRIMSON WINTER

Very Early, Prolific, Vigorous

This new variety has created a great sensation and proved to be very valuable, especially in California. We believe it will grow anywhere equally as good as the common sorts, but to obtain its highest state of perfection and yield, it should be planted in a warm location, where it will produce, it is claimed as much as \$2,000 per acre. The new Crimson Winter Rhubarb will produce marketable stock abundantly fully six months earlier than any other rhubarb. The stalks are of medium size, a brilliant crimson and of the very best quality. If kept moist it will produce stalks abundantly at any season. It is, in fact, absolutely perpetual.

Price, small roots, 20c each, \$2.00 dozen, postpaid. By express or freight, \$1.75 dozen, \$12.00 per 100. Large 2-year-old roots, each 25c; dozen \$2.50.

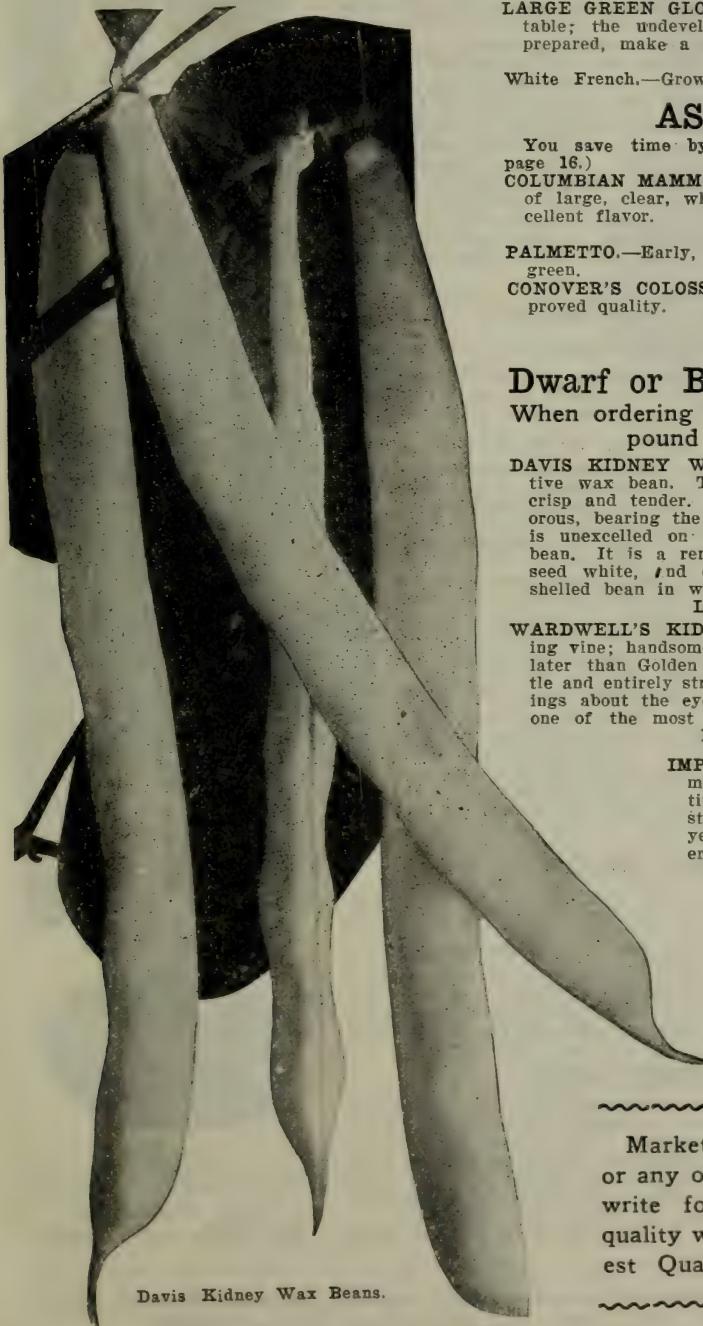
VEGETABLE PLANTS

We grow large quantities of choice vegetable plants, and can supply all of the varieties listed below, in their proper season, in most any quantity. We can supply all vegetable plants in two grades—plants direct from the seed beds and those that have been transplanted into shallow boxes. Transplanted plants are much stronger and better rooted, and are well worth the price, especially in the early part of the season. We can supply most any of the leading sorts. Tell us your choice of varieties, and we will send it or give good substitute. No plants sent C. O. D.

	Postpaid	By express		Postpaid	By express		
	Dozen	100	1000	Dozen	100	1000	
Cabbage.				Tomatoes.			
Early or late kinds, transplanted.....	\$0.20	\$1.00	\$7.50	Leading kinds, transplanted.....	\$0.35	\$1.25	\$10.00
Not transplanted .....	.60	5.00		Not transplanted .....	.75	7.00	
Add 25c per 100 for Cabbage Plants by mail.				Add 40c per 100 for Tomato Plants by mail.			
Cauliflower.				Special—Pot-grown tomato plants; large and strong; 10c each; \$1.00 doz., not postpaid; must go by express.			
Early Snowball, transplanted....	.30	1.50	12.00	MISCELLANEOUS PLANTS			
Early Snowball, not transplanted.	.25	1.25	10.00	All Transplanted			
Late kinds, transplanted.....	.30	1.25	10.00	Postpaid	By express		
Late kinds, not transplanted...	.25	1.00	7.50	Dozen	100	1000	
Add 25c per 100 for Cauliflower Plants by mail.				Broccoli	\$0.25	\$1.00	\$7.00
Celery.				Brussels Sprouts .....	.25	.75	6.00
Leading kinds, transplanted.....	.25	1.00	7.50	Celeriac .....	.25	.75	6.00
Not transplanted .....	.75	6.00		Egg Plant .....	.30	1.00	7.00
Add 25c per 100 for Celery Plants by mail.				Pepper .....	.30	1.00	7.00
NOTE.—Special Low Prices in 5, 10 or 20 M. lots—Write.				Sweet Potato Plants .....	.30	1.00	7.00
				Tobacco .....	.30	1.00	7.00
				Add 25c per 100 for above plants by mail.			
				Chives (Schnittlauch).			Per bunch 25c

Routledge Seed & Floral Co's Highest Quality VEGETABLE SEEDS

We catalog only the very best varieties of both the newer and the older strains, those that are especially adapted to the peculiar conditions on the Pacific Coast. We have indicated by using larger, heavy-faced type the varieties that are the very best of their class. They are the varieties recommended by us.



Davis Kidney Wax Beans.

ARTICHOKE

LARGE GREEN GLOBE.—The well-known French vegetable; the undeveloped flower heads, when properly prepared, make a most delicious dish.

Pkt. 10c, oz. 35c, 4-oz. \$1.00

White French.—Grown for stock. See page 34.

ASPARAGUS

You save time by planting Asparagus Roots. (See page 16.)

COLUMBIAN MAMMOTH WHITE.—Gives immense yield of large, clear, white shoots; very tender and of excellent flavor.

Pkt. 5c, oz. 10c, 4-oz. 25c, lb. 75c

PALMETTO.—Early, prolific and uniformly large; light green.

Pkt. 5c, oz. 10c, 4-oz. 25c, lb. 70c

CONOVER'S COLOSSAL.—A good, standard sort of approved quality.

Pkt. 5c, oz. 10c, 4-oz. 25c, lb. 60c

BEANS

Dwarf or Bush—Yellow Podded

When ordering Beans by mail, add 10c per pound to cover postage.

DAVIS KIDNEY WAX.—The most hardy and productive wax bean. The pods are long, white, straight, crisp and tender. The vine is rustless and very vigorous, bearing the pods in clusters. For canning this is unexcelled on account of purity of the pod and bean. It is a remarkably good variety for shipping; seed white, and on this account is desirable for a shelled bean in winter.

Large pkt. 10c, lb. 20c, 10 lbs. \$1.50

WARDWELL'S KIDNEY WAX.—A hardy, strong-growing vine; handsome, long podded variety. A few days later than Golden Wax; pods long, golden-yellow, brittle and entirely stringless; seed white, with dark markings about the eye. Market gardeners find this bean one of the most profitable.

Large pkt. 10c, lb. 20c, 10 lbs. \$1.40

IMPROVED GOLDEN WAX.—One of the most popular garden varieties in cultivation. Pods are long, nearly straight, broad and flat, and golden-yellow; seed white, more or less covered with two shades of purplish red.

Large pkt. 10c, lb. 20c, 10 lbs. \$1.35

PROLIFIC BLACK WAX.—An improvement on the old Black Wax or Butter Bean. Very vigorous and prolific; pods fairly long, golden-yellow, very brittle, and stringless; seed black.

Large pkt. 10c, lb. 20c, 10 lbs. \$1.40.

Market Gardeners who buy Beans or any other Seeds in quantity should write for prices, stating kind and quality wanted. Our Seeds are "Highest Quality."

BEANS—Continued

Dwarf or Bush—Green Podded Kinds

If ordering by mail, add 10c per pound for postage.

STRINGLESS GREEN POD.—The finest green pod, stringless bean. The earliest and hardiest of all green-podded sorts. The plants are very productive, bearing profusely the beautiful green pods, which are perfectly round, long, almost straight, very tender, brittle, of the finest flavor; very fleshy and entirely stringless. Large pkt. 10c; lb. 20c; 10 lbs. \$1.40

DWARF HORTICULTURAL.—One of the best varieties for shell beans. Pods very handsome, being yellowish and thickly splashed with bright crimson. Very productive. Large pkt. 10c, lb. 20c, 10 lbs. \$1.40

LONG YELLOW SIX WEEKS.—A very productive, extra early variety with long, straight, thick pods. Large pkt. 10c, lb. 15c, 10 lbs. \$1.25

Earliest Red Valentine.—One of the earliest. Round pods, crisp and tender and of medium length. Large pkt. 10c, lb. 15c, 10 lbs. \$1.25

Extra Early Refugee.—A very early medium-sized green podded bean of excellent quality. Large pkt. 10c, lb. 15c, 10 lbs. \$1.25

Broad Windsor.—The largest and best of this class. Broad, flat beans of delicious flavor. Large pkt. 10c, lb. 15c, 10 lbs. \$1.25

LADY WASHINGTON (For Dry Beans).—Sturdy, bushy plant, erect habit. A great improvement over the old "Navy," being much earlier, a little larger, and a very heavy yielder, especially adapted to our Western soils, and is entirely free from disease. The pods all ripen together and early enough to harvest before winter rains. Pkt. 10c, lb. 15c, 10 lbs. 85c

Castor Bean.—Used for medicinal purposes and by some claimed to keep moles away. Pkt. 10c, lb. 40c

Climbing or Pole Beans

Improved Kentucky Wonder (Asparagus).

A very popular variety; often sold as asparagus. By far the best green podded pole variety. Pods green, very long, round and perfectly stringless. Enormously productive and earliest. Unsurpassed for the table, being very tender and of delicious flavor.

Large pkt. 10c, lb. 20c, 10 lbs. \$1.25

WORCESTER POLE.—The finest Pole Shell Bean in cultivation, and on account of its wonderful productiveness and superior quality takes first rank as a Pole Shell Bean. The strain we offer is an especially fine one. The long, thick pods are brilliantly colored with crimson carmine, and are borne in clusters. Unequaled for tenderness and delicious flavor.

Large pkt. 10c, lb. 20c, 10 lbs. \$1.50

EARLY GOLDEN CLUSTER WAX.—A very popular, early and fine variety; pods golden yellow, long, wide and flat, borne in clusters, of fine quality and remain in condition to use for a long time; seed flat and dull white.

Large pkt. 10c, lb. 20c, 10 lbs. \$1.50

Dutch Case Knife.—Early, very productive and of fine flavor; long, flat, green pods, turning white; beans broad, flat and kidney-shaped.

Large pkt. 10c, lb. 20c, 10 lbs. \$1.50

Scarlet Runner.—Grown extensively for ornamental purposes, as flowers are a most brilliant scarlet and borne profusely; beans are broad and flat, and of fine flavor when cooked.

Large pkt. 10c, lb. 25c

Indian Chief (Pole Black Wax).—White, fleshy pods, not very long, and excellent as snap beans; very tender and perfectly stringless. The best of the Pole Butter Beans.

Large pkt. 10c, lb. 15c, 10 lbs. \$1.25

Pole Lima Beans

King of the Garden Lima.—The largest podded variety and very productive; vines very vigorous, often producing pods six to seven inches long, containing five or six large beans; of fine flavor.

Large pkt. 10c, lb. 20c, 10 lbs. \$1.50

EARLY LEVIATHAN.—One of the newer varieties and the very best pole variety in cultivation; vine very tall and strong; pods long and borne in clusters; beans large and white; is early, strong-growing and prolific.

Large pkt. 10c, lb. 20c, 10 lbs. \$1.50

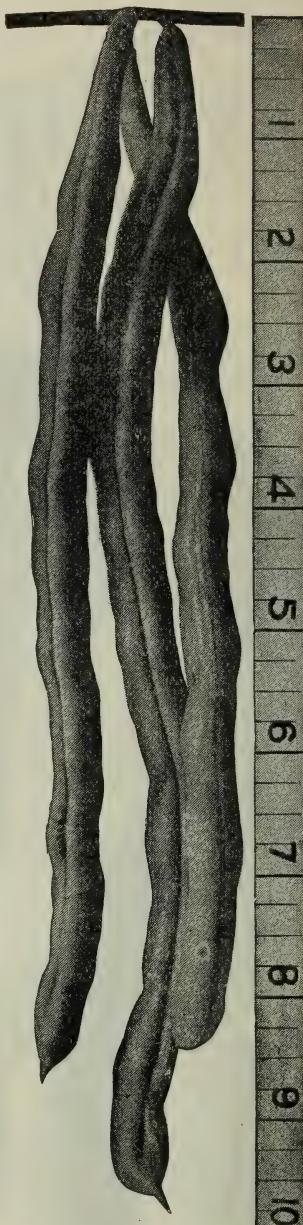
Dwarf or Bush Lima

Burpee's Bush Lima.—The best late dwarf variety; plant 18 to 24 inches high; very prolific; pods large, and the beans also large and heavily ribbed; will bear until stopped by frost.

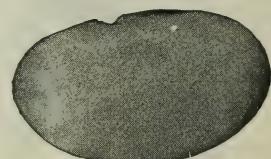
Large pkt. 10c, lb. 20c; 10 lbs. \$1.60

HENDERSON'S BUSH LIMA.—Fully two weeks earlier than any other variety. Plant about sixteen inches high, and very prolific; beans are small; especially recommended where the season is short.

Pkt. 10c, lb. 20c, 10 lbs. \$1.60



Kentucky Wonder.



Lima Bean
(Shelled.)

Free Premiums.
See inside front cover.

Market and Truck Gardeners should write us for special prices and state quality and kinds wanted. We'll save you money and you get quality.

BEETS

ROUTLEDGE FAVORITE

A select strain, very early. Perfectly globe shaped, with a single tap root, and of the richest color of any of the beets. It is a splendid keeper, is not excelled in yielding qualities by any other sort, is exceedingly tender, fine and sweet and is unequalled for table use. Market gardeners will find our Favorite a very profitable variety to grow, as no other sort approaches it in attractiveness or quality.

Pkt. 10c; oz. 20c; 4-oz. 50c; lb. \$1.75

CROSBY'S EGYPTIAN.—Very popular early beet, as it reaches the desired size quickly. The beets are of good size, rather flat than round, and flesh dark.

Pkt. 5c; oz. 15c; 4-oz. 50c; lb. \$1.75

EDMAND'S BLOOD TURNIP.—Unsurpassed for late planting; deep blood-red flesh, very tender and juicy, runs very evenly in size and quite round; grows a small top; leaves dark red with dark midrib.

Pkt. 5c; oz. 15c; 4-oz. 50c; lb. \$1.50

IMPROVED EARLY BLOOD TURNIP.—An extra selected stock of blood turnips, having larger, coarser tops and roots than the Detroit Dark Red, and requiring a considerably longer time to mature; excellent for summer and autumn use.

Pkt. 5c; oz. 15c; 4-oz. 50c; lb. \$1.50

Detroit Dark Red.—Excellent variety, nearly globular, dark skin and dark flesh, zoned lighter; maturing early and keeping crisp and tender for a long time.

Pkt. 5c; oz. 15c; 4-oz. 50c; lb. \$1.50

Free Premiums. See
inside front cover.



Improved Mammoth Long Red.



Routledge Favorite Beet.

LONG BLOOD.—The root is smooth and handsome, and the flesh as brilliant in color and good in quality as the best Blood Turnip varieties. Good keeper.

Pkt. 5c; oz. 15c; 4-oz. 40c; lb. \$1.25

Half Long Blood.—Rapidly becoming very popular. Excellent in quality, and yields well. Pkt. 5c; oz. 15c; 4-oz. 40c; lb. \$1.00

Swiss Chard (Sea Kale).—Cultivated largely for its broad leaf stalks, which are treated the same as asparagus. The young leaves are often used the same as spinach. Pkt. 5c; oz. 15c; 4-oz. 35c

STOCK BEETS Mangels and Sugar Beets

Price of all the following varieties: Pkt. 5c; oz. 10c; 4-oz. 20c; lb. 50c, postpaid; 10 lbs. and upwards (purchaser paying transit), 35c per lb. unless otherwise priced.

GIANT HALF SUGAR MANGEL.—A new variety, very much more valuable for feeding purposes than the old sorts, it being very much richer. Yields as much per acre as the best Mangels, and twice as much per acre (bulk of roots) as the rich sugar beet. Roots long and thick and large, very smooth, with few rootless and creamy white in color, with medium-sized top.

70c lb., 10 lbs. @ 55c

IMPROVED MAMMOTH LONG RED.—Very popular and much used. A large and heavy cropper. Dark red skin, with whitish flesh; grows one-half or more above the surface; roots quite regular; attain a very large size.

60c lb., 10 lbs. @ 45c

GOLDEN TANKARD.—An enormous yielder of weight per acre, and at the same time very nutritious; flesh deep yellow; of fine shape, growing largely above soil, thus being easily harvested.

60c lb., 10 lbs. @ 45c

YELLOW GIANT INTERMEDIATE.—Roots very large, growing over one-half out of the ground; flesh white, sweet and tender; an enormous cropper.

French White Sugar.—The sugar beet most generally grown, as it combines, with heavy yield, from 10 to 13 per cent of sugar.

Klein Wanbleben.—This is the variety which is considered best in Germany for producing sugar, and is now taking the lead in this country for this purpose.

BROCCOLI

One ounce will produce about 2000 plants.

WHITE CAPE.—Resembles cauliflower; very white and sure to head. Pkt. 10c; oz. 40c; 4-oz. \$1.25

Purple Cape.—Large heads, which are tinged with purple. Pkt. 5c; oz. 35c; 4-oz. \$1.00

BRUSSELS SPROUTS

One ounce sufficient for a seed bed 6 feet square or two sashes. Will produce about 2000 plants.

AIGBURTH.—The finest variety of all the Brussels Sprouts; very large and of superior quality.

Pkt. 5c; oz. 20c; 4-oz. 50c

"Highest Quality"

Our Cabbage Seeds come from the world's best growers—pure, true strains, of highest quality. One ounce will produce over 2000 plants. One-quarter pound of seed will produce plants sufficient for one acre, therefore, don't practice false economy by buying low-priced, low-quality seed.

EARLY JERSEY WAKEFIELD

The earliest and hardest heading of first early cabbages. Most gardeners depend upon it for the bulk of their extra early crop. Its exceeding hardiness not only to resist cold but other unfavorable conditions, insures the greatest likelihood of profitable and satisfactory results.

Our stock is grown and selected with the greatest care; there is none better, and few as good. Head conical, very compact, solid and of excellent quality. The thick, stout leaves and compact habit of the variety make it the best sort for very early setting. HIGHEST QUALITY SEED.

Pkt. 10c; oz. 30c; 4-oz. \$1.00;
lb. \$3.00.

Ordinary Strain: Pkt. 5c; oz. 25c;
4-oz. 75c.

COPENHAGEN MARKET—New

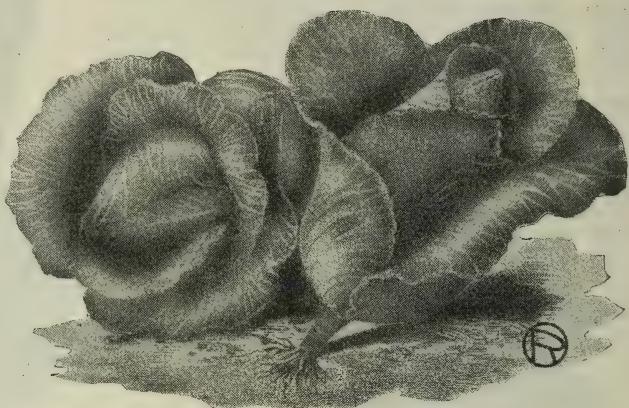
The earliest large round-headed cabbage yet introduced.

The heads are of exceptionally large size for so early a variety. The plant is of vigorous habit but compact, with short stem and few outer leaves which are of rather upright growth. The leaves are medium light green, nearly round, comparatively thick and smooth. The heads are round, very solid and of exceptionally good quality. Its earliness, compact growth, uniformity and size of head, firmness and most excellent quality combine to make Copenhagen Market the most valuable cabbage of recent introduction. We recommend it unreservedly both for the home garden and the market gardening trade. (See cut.)

Pkt. 10c; ½ oz. 35c; oz. 60c; 2 oz. \$1.00; ¼ lb. \$1.75.

CABBAGE

True and Pure



Early Jersey Wakefield.

EARLY YORK.—A small, early, conical heading cabbage. Has been very popular, but we prefer Jersey Wakefield. Pkt. 5c; oz. 20c; 4-oz. 75c; lb. \$2.50

EARLY WINNIGSTADT.—One of the best for general use, being very hardy and sure to head. Owing to its compact and upright habit of growth and peculiar texture of short, thick leaf, the variety seems to suffer less from the cabbage worm than most other sorts. Head regular, conical, very hard and keeps well both summer and winter. It is the hardiest, not only as regards frost, but will suffer less from excessive wet, drought, insects or disease than any other second early sort.

Pkt. 5c; oz. 25c; 4-oz. 75c; lb. \$2.50

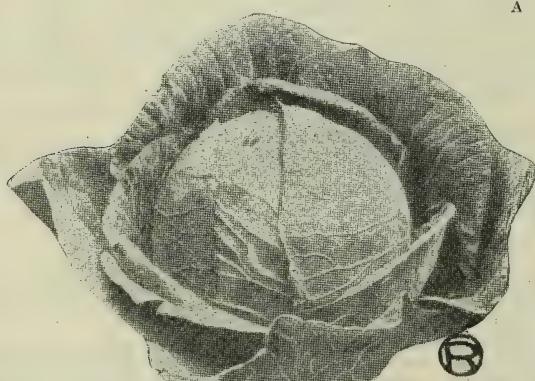
EARLY DWARF FLAT DUTCH.—A most valuable second early sort. The plant is short stemmed, upright and having comparatively few and short leaves, the rows can be set close together. Head large, oval or nearly round, solid, crisp and tender, maturing right after the first early kinds. Every plant will form a hard head fit for market. A most valuable second early sort.

Pkt. 5c; oz. 25c; 4-oz. 65c; lb. \$2.25

EARLY SPRING

Our strain of this variety is from extra selected stock, and we believe it to be unequaled by any other. It is the first early round-head cabbage, maturing about the same time as Jersey Wakefield. One of its chief claims to superiority is the remarkable uniformity of the heads. They are also very solid, even when young, and with very small outside leaves.

Pkt. 5c; oz. 25c; 4-oz. 75c; lb. \$2.50



Copenhagen Market.

CABBAGE PLANTS.—During planting season we aim to have on hand large quantities of Cabbage and Vegetable Plants. See pg. 16.

"WILGROW."—Use a spoonful of Wilgrow to each cabbage plant, and you will have the best cabbage you ever raised. It's the greatest fertilizer ever prepared for vegetable and flower gardens. Only 25c a package. See pg. 101.

DANISH BALL HEAD OR HOLLANDER

GENUINE DANISH GROWN STOCK.

Most remarkable late cabbage yet produced, heads hard and solid—fine grained and tender. Entirely distinct. Exceedingly hardy in resisting cold and dry weather. We offer true, pure seed of the very finest short stemmed type.

Famous for its hard-heading qualities, which at once recommends it as highly valuable for shipping. The magnificent heads are round in form and keep in excellent condition during winter, coming out in the spring perfectly solid.

Pkt. 10c; oz. 30c; 4-oz. \$1.00; lb. \$3.50
PERFECTION DRUMHEAD SAVOY.—

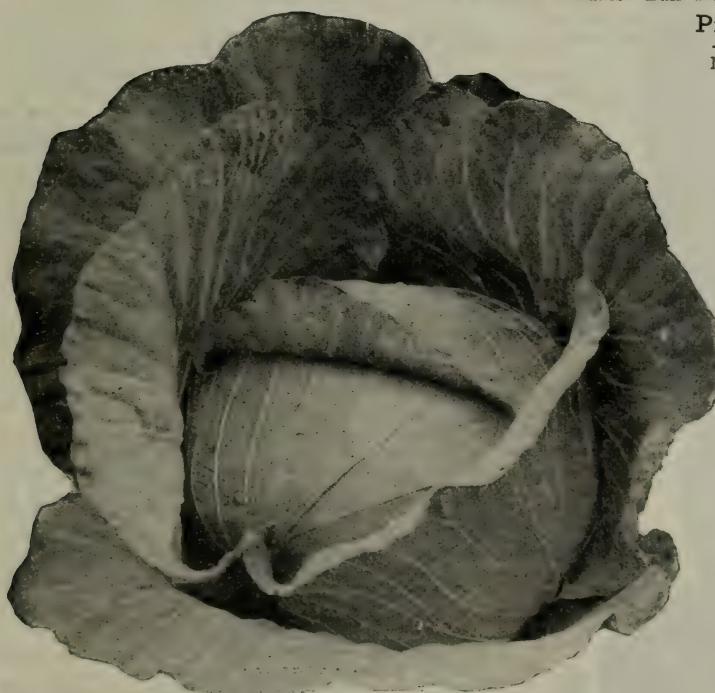
A variety that is much prized in Europe, and also by those who are familiar with it in this country. It is very sweet and crisp, and always tender. Heads medium size and compact, with densely and uniformly crimped or savoy leaves.

Pkt. 5c; oz. 25c; 4-oz. 75c; lb. \$2.50



®

**FOR WEEDERS,
TROWELS, ETC.,**
See Garden Tools,
pgs. 108 to 113.



Premium Late Flat Dutch.

CHICORY

One ounce is sufficient for a bed of 4 square yards.
Large-Rooted, or Coffee.—Leaves, when blanched, make an excellent salad.

Pkt. 5c; oz. 15c; 4-oz. 50c

Our prices are not the cheapest, because our Seeds are of the HIGHEST quality. THAT MAKES THEM CHEAPEST IN THE END. Invest a little extra at planting time and you will reap a more profitable harvest.

CHERVIL

One ounce sufficient for 100 feet of drill.
Curled.—An aromatic herb, resembling parsley, and useful for flavoring in soups and salads.

Pkt. 5c; oz. 10c; 4-oz. 30c

Danish Ball Head or Hollander.

Premium Late Flat Dutch.

—A low-growing variety; heads large, bluish green; round, solid, broad and flat on top; an excellent fall and winter variety, and a good keeper. It is a sure header. Our stock has been grown from carefully selected heads, and we consider it superior to any other strain of Flat Dutch cabbage on the market.

Pkt. 5c; oz. 25c; 4-oz. 90c
lb. \$3.00.

MAMMOTH ROCK BED.—Best hard-headed, red variety; large heads, globular, and very deep red on top; outer leaves greenish; especially used for pickling.

Pkt. 5c; oz. 20c; 4-oz. 75c;
lb. \$2.50.

Bug Death

kills all leaf-eating insects; excellent for using on cabbage. Can be used either dry or in water. See description, pg. 107; also dusters and blowers, pg. 105-107.

"Highest Quality"**CAULIFLOWER****Plants in Season****ROUTLEDGE'S "SNOW WHITE"**

In competition with all other strains, this Cauliflower has won the approval of critical gardeners, being the earliest and best sort grown. It is suitable not only for early use, but is superior for late planting. The heads are hard and solid, and do not spread as do some of the inferior sorts. No other equals it in purity of color, being clear snow white. It is equally desirable for family use and for the market garden. The heads are large—from 9 to 12 inches in diameter. On account of its close growing, compact habit, many more plants may be grown on a given area than of the late spreading sorts.

Pkt. 25c; ¼-oz. \$1.00; ½-oz. \$1.75; oz. \$2.00

Early Snowball

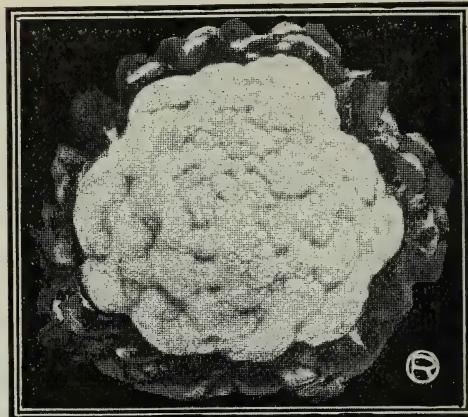
This variety is much in demand by market gardeners for main crop. Its earliness, compact habit, large-sized heads and snow-white color recommend it to every grower as a variety of especial merit. We have an extra selected stock of this sort, and recommend it with the greatest confidence.

Pkt. 20c; ¼-oz. 75c; ½-oz. \$1.25; oz. \$2.25

NEW CALIFORNIA WONDER.—A late variety, forming good, large, solid heads during the winter. This variety has given great satisfaction in Oregon and California, wherever tried.

Pkt. 10c; ¼-oz. 25c; oz. 75c; ¼-lb. \$2.25

ALGIERS.—A very popular late variety; with large heads. Pkt. 10c; ½-oz. 50c; oz. 75c; 4-oz. \$2.25



Routledge Snow White.

VEITCH'S AUTUMN GIANT.—A large, late variety, very hardy. The heads are well protected by the foliage, enabling it to resist unfavorable climatic conditions.

Pkt. 5c; ¼-oz. 15c; oz. 60c; 4-oz. \$1.75

CARROT

FRENCH FORCING.—A very popular variety for forcing. The root is globe-shaped, with distinct tap root; color bright orange-scarlet.

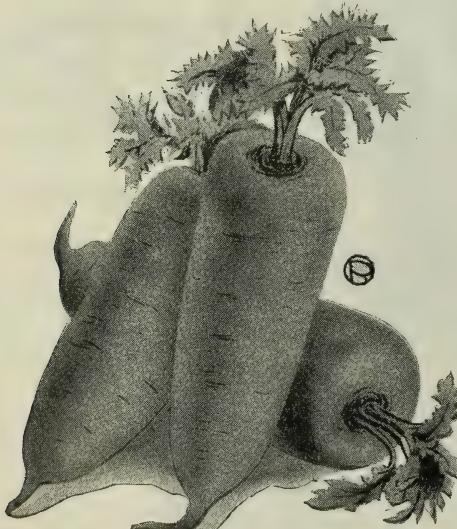
Pkt. 5c; oz. 20c; 4-oz. 60c; lb. \$1.50

EARLY SCARLET HORN.—An excellent variety for early forcing; grows with a small top; is very fine grained and of good flavor.

Pkt. 5c; oz. 15c; 4-oz. 50c; lb. \$1.50

CHANTEUR.—The Market Gardener's Favorite.—Tops medium sized, necks small, roots tapering slightly, but uniformly stump-rooted and smooth; color deep orange-red; flesh very crisp and tender; medium early; a heavy cropper.

Pkt. 5c; oz. 15c; 4-oz. 40c; lb. \$1.10



Routledge Model.

ROUTLEDGE MODEL

The finest early table variety grown. Handsome, meltingly tender and sweet.

This new carrot will no doubt prove to be one of the most popular varieties. You will be delighted with the melting tenderness and sweet, mild flavor of Routledge Model.

It is a half-long cylindrical carrot, blunt pointed, with a small tap root and small top. They run very uniform in shape and grow just the right size. The flesh is of fine texture, entirely devoid of stringiness, coarseness and woody heart orange so attractive when served.

Pkt. 10c; oz. 20c; 4-oz. 50c; lb. \$1.50

DANVER'S HALF-LONG IMPROVED.—A great favorite; big cropper; the roots are smooth and handsome, medium size, tapering uniformly to a blunt point and of a rich, dark orange; fine for table or stock feeding.

Pkt. 5c; oz. 15c; 4-oz. 40c; lb. \$1.00

GUERANDE, OR OXHEART.—Bright orange, broad at the top and terminates abruptly in a small tap root. Length about 5 to 6 inches; very fine grained and sweet. Excellent for shallow soils.

Pkt. 5c; oz. 15c; 4-oz. 40c; lb. \$1.00

LONG ORANGE IMPROVED.—The best of the long carrots, especially for stock; color bright orange, with long, tapering roots, requiring a deep soil.

Pkt. 5c; oz. 10c; 4-oz. 30c; lb. 85c

ROUTLEDGE MAMMOTH STOCK

The heaviest cropping carrot grown, yielding more tons to the acre than any other sort. The flesh is yellowish-white, crisp and solid, and very sweet in flavor. It is a vast improvement on the Belgian sorts, which have been favorites in the past, as it is not only much more productive, but vastly easier to handle. The roots are short and very heavy at the shoulder, rendering them easily harvested. Too much can scarcely be said of their size and great productiveness. The roots frequently measure 15 to 20 inches in circumference, and 18 to 40 tons to the acre is not an extravagant statement as to yield.

Large pkt. 10c; oz. 20c; 4-oz. 50c; lb. \$1.75; 2 lbs. enough for 1 acre, \$3.00.

Large White Belgian.—Extensively grown for stock feeding; roots pure white, green above ground and growing to a large size; flesh rather coarse.

Pkt. 5c; oz. 10c; 4-oz. 25c; lb. \$75c

Improved Short White.—A good field carrot, enormously productive, easily harvested; roots half long, heavy at the shoulder, but tapering regularly to the point; color light green at the crown, white below; flesh rich, white, solid, and of good flavor.

Pkt. 5c; oz. 10c; 4-oz. 30c; lb. 80c

"Highest Quality"**CELERY****Plants in Season**

NOTE.—We are offering only the VERY BEST STRAINS of Celery Seed. Low-priced Celery Seed is very disappointing and practically worthless. Don't buy it.

R. R'S WHITE PLUME**Our leading White Celery.**

A handsome, crisp sort, of very easy cultivation. Naturally its stalks and portions of inner leaves and heart are white, so that by closing the stalks, either tying or by simply drawing the soil up against the plant and pressing it together, the work of blanching is completed without the troublesome process of "banking" or "earthing up." It is the earliest celery known, delicious and fine flavored.

Pkt. 10c; oz. 40c; 4-oz. \$1.25; lb. \$4.00

PARIS, GOLDEN SELF-BLANCHING**The finest strain of French grown seed.**

This splendid variety is without doubt the most popular celery grown. It is a self-blanching sort, for with a little banking or covering, even the outer ribs assume a beautiful golden yellow, while the heart or vine stalks are deliciously tender, brittle and sweet. This variety is being very extensively grown both for market and private use, not only on account of its ease of cultivation, but for its superior quality. It is not quite so early as the White Plume, but is of heavier and more compact growth, the stalks being thick, crisp and brittle. The hearts are large and solid, blanching a beautiful waxen yellow. It is tender and sweet and free from stringiness. Its flavor is rich and delightful. Our Private Stock Seed is procured from a noted celery grower in France, and is very superior.

Select quality: Pkt. 20c; ½-oz. \$1.00; oz. \$1.50

Golden Yellow Self-Blanching.—Same variety of celery as above, but is American grown. It is equal to most seeds offered, but not as true, dependable or of such high quality as the French grown stock.

Pkt. 10c; oz. 60c; 4-oz. \$2.00

GIANT PASCAL.—Excellent for fall or winter use, and has increased in popularity every year. A large, tall grower of the finest nut flavor, being free from any bitter taste. Very broad stalks, blanching very quickly with little banking up; an admirable keeper.

Pkt. 5c; oz. 20c; 4-oz. 60c; lb. \$2.00

WINTER QUEEN.—One of the best winter varieties, and highly recommended. It is tall and forms a large bunch. The leaves are light green.

Pkt. 5c; oz. 30c; 4-oz. 90c; lb. \$3.00

SOUP CELERY for flavoring.

4-oz. 10c; lb. 35c



White Plume.

Routledge's "Highest Quality" Seeds cost more than some and are worth more.

". . . seeds are, after all, the least expensive article in making the garden. Always buy the best Seed that the trade offers and grow vegetables of merit. Low-priced Seeds, as sold by wholesale, jobbing seed houses and country stores, will give low quality crops.

**CELERIAC****Turnip rooted celery**

Large, Smooth Prague.—An improved form, producing large, smooth roots, which are nearly round.

Pkt. 5c; oz. 20c; 4-oz. 60c

COLLARDS

True Georgia.—Used as "greens" mainly in the South and West. As the leaves are pulled off, others grow in their places.

Pkt. 5c; oz. 15c; 4-oz. 30c

CORN SALAD**FETTICUS OR LAMB'S LETTUCE**

One ounce sufficient for bed 20 feet square.

Large-Leaved Fetticus.—Used as a salad.

Pkt. 5c; oz. 10c; 4-oz. 30c; lb. 75c

CRESS

Curled or Pepper Grass.—Used as a salad.

Pkt. 5c; oz. 10c; 4-oz. 25c

True Water.—This is quite distinct from the former and only thrives when its roots and stems are submerged in water. It is one of the most delicious of small salads.

Pkt. 5c; oz. 35c; 4-oz. \$1.00

DO YOU SEND EAST

for your Seeds? It's bad policy. Spend your money on this Coast. Here's where you sell your products. Our Seeds are highest quality.

Selected CORN—SWEET OR SUGAR Northern Grown

If ordering by mail, add 10c per pound for postage. Write for quantity prices.

ROUTLEDGE SUPERB

In this new Northern grown Table Corn we offer our customers the EARLIEST, SWEETEST and most productive early Corn known, and we mean every word of it.

There is no use writing a half page to say the same thing. We can not understand why gardeners will persist in planting the old run-out varieties that taste like field corn when cooked, when such a delicious, tender and productive corn as our "Superb" will double their sales and profit and please their customers. Routledge's Superb will mature 7 to 10 days ahead of any other Sweet Corn and produce 3 to 5 medium sized ears just the right size for table use, appetizing, sweet and unsurpassed. Stalks grow only 3½ to 4½ feet high, therefore can be planted quite close together.

Large pkt. 10c; lb. 20c; 10 lbs. \$1.50; 20 lbs., enough for 1 acre, \$2.40.

ROUTLEDGE'S SELECTED STRAIN

GOLDEN BANTAM

Flavor.—Without exception, Golden Bantam Corn is the richest in flavor of all varieties; a sweet corn of which one will never tire. The introduction of Golden Bantam affords a delicacy of surprising quality and rich flavor. The first trial of this superb Sweet Corn creates a taste "like more."

Earliness.—Golden Bantam Sweet Corn is one of the earliest sweet corns. It matures quickly and is suitable, not only for early planting (on account of its hardiness), but for a succession of sowings may be made during the season, giving a continuous supply until fall.

Color.—When picked at the proper stage of its growth the kernels are a rich, creamy yellow. This deepens to an orange yellow as it ripens. Its first appearance often leads the purchaser to doubt its being a sweet corn. A trial, however, soon convinces that the color has no effect on its unsurpassed quality.

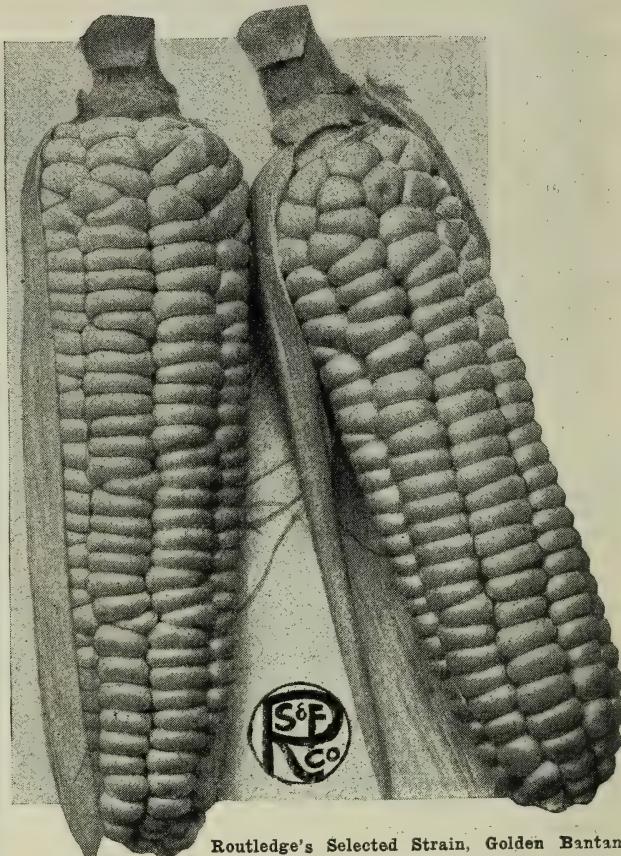
Growth.—Being dwarf in growth, with stalks small in size, it can be planted quite close, and a large crop may be obtained on a small area. The ears are 8 to 12-rowed, and from 5 to 7 inches in length—just the right size to handle at the table. The kernels are wider than most sweet corn, and of good depth, the percentage of corn to cob being greater than on any other early variety.

The Best Ever.—We have yet to hear of one who has grown Golden Bantam Sweet Corn and was not well pleased with it. From all points come letters from pleased customers. So sure are we that it will satisfy everyone who tries it this season, that we agree to refund the price paid us for Golden Bantam if it does not give perfect satisfaction.

Price: Large pkt. 10c; lb. 20c; 10 lbs. \$1.50; 20 lbs., enough for 1 acre, \$2.40.

EARLY MAMMOTH.—One of the very best varieties to plant for home garden or market. Forms very large ears, which are quite sweet and of fair quality. It withstands our dry summers well. The ears fill well and are excellent.

Large pkt. 10c; lb. 15c; 10 lbs. \$1.25



Routledge's Selected Strain, Golden Bantam.

WHITE COB CORY.—Quite early and of good size. Excellent quality; good for main crop and market.

Large pkt. 10c; lb. 15c; 10 lbs. 90c

COUNTRY GENTLEMAN.—Valued for its richness of flavor and productiveness, having 3 to 4 good ears to the stalk, all extra large, with exceedingly deep kernels.

Large pkt. 10c; lb. 15c; 10 lbs. \$1.00

EARLY MINNESOTA.—This old and deservedly popular variety is one of the best early sorts for the market and private garden.

Large pkt. 10c; lb. 15c; 10 lbs. \$1.00

BLACK MEXICAN.—An extra fine variety, unsurpassed for sweetness. Ears bluish-black when ripe, but whitened on being cooked.

Large pkt. 10c; lb. 15c; 10 lbs. \$1.00

STOWELL'S EVERGREEN.—A good main crop or late sort. Recognized everywhere as the standard variety for market and home use. Remains longer in green state than any other. Very large ears, with deep grains, and remarkably sweet.

Large pkt. 10c; lb. 15c; 10 lbs. \$1.00

FIELD CORN—Don't overlook what we have to offer in Oregon grown Field Corn; "the best ever." Pg. 44.

POP CORN

White Rice.—Most popular and profitable kind; short ears, white, pointed kernels.

Large pkt. 10c; lb. 15c

CORN PLANTERS.—We offer three styles. See pg. 112. They save time and seed.

CUCUMBERS



Improved Long Green.

EARLY GREEN CLUSTER.—One of the extra early varieties. A great bearer; fruit borne in clusters of excellent quality and shape.

Pkt. 5c; oz. 15c; 4-oz. 40c; lb. \$1.00



Boston Pickling.

EGGPLANT

New York Improved Spineless.—Considered the best variety. Oval shaped, deep purple, large size and fine flavor.

Pkt. 10c; ½-oz. 30c; oz. 50c; 4-oz. \$1.40

Early Long Purple.—A very hardy variety, producing abundantly. Fruit longer and smaller than previous variety.

Pkt. 10c; oz. 35c; 4-oz. \$1.00

HORSE-RADISH ROOTS

These sets or small roots can be planted in the spring or fall, small end down, with the top one inch below the surface, in rich, cultivated soil. Will form radish of large size in one season's growth. For prices, see Vegetable Plants and Roots, page 16.

SEED AND REFERENCE TABLES, AMOUNT TO PLANT, ETC., see complete reference tables inside back cover. Always refer to "Index," pgs. 1-2, for anything wanted.

Boston Pickling

A distinct variety, very popular for pickles; color bright green, and a great producer. The fruit averages four to five inches in length, when large enough for slicing, are of excellent quality; but it is for producing medium-sized pickles that this variety is so highly esteemed. If the fruits are gathered as soon as large enough, the vines will continue bearing through a long season.

Pkt. 5c; oz. 15c; 4-oz. 40c; lb. \$1.00

EARLY SHORT GREEN.—A very early and productive variety, bright green, rather short, straight, and a little smaller at the ends. Crisp and tender.

Pkt. 5c; oz. 15c; 4-oz. 40c; lb. \$1.00

Arlington White Spine

One of the best sorts for table use. Vines vigorous, fruiting early and abundantly. Fruit uniformly straight, light, bright green in color, with a few white spines. Flesh crisp, tender and of excellent quality.

Pkt. 5c; oz. 10c; 4-oz. 30c; lb. \$1.00

JAPANESE CLIMBING.—Often used for ornamental purposes, as the vines are very vigorous, throwing out tendrils, enabling them to climb trellises admirably. Dark green fruit, quite large and very tender.

Pkt. 10c; oz. 15c; 4-oz. 50c

Improved Long Green

The leading large variety. Fruit from 10 to 12 inches long, dark green, crisp and tender. A good variety for slicing, and when ripe they are the best for sweet pickles. We offer "Highest Quality" seed that will grow long and uniform fruit.

Pkt. 5c; oz. 15c; 4-oz. 40c; lb. \$1.10

USE BUG DEATH, pg. 107, and WILGROW, pg. 101, on your cucumber vines and you will be more than pleased at results.

ENDIVE

This is a hardy vegetable, cultivated principally for a winter salad. Sow from May until August for a succession of crops; tie the leaves closely together to blanch them.

Green Curled.—The hardest of all, with beautifully curled dark green leaves, tender and crisp.

Pkt. 5c; oz. 15c; 4-oz. 50c

White Curled.—Very tender and white; blanches easily.

Pkt. 5c; oz. 15c; 4-oz. 50c

KALE or Borecole

Kale, or Borecole, is a kind of cabbage that does not form a close and solid head, but a cluster of beautifully curled or wrinkled leaves that are tender and of excellent flavor. It requires the same treatment as cabbage; is very hardy, being improved by frost.

DWARF GREEN CURLED.—Beautifully curled, bright green leaves, tender and of fine flavor.

Pkt. 5c; oz. 10c; 4-oz. 25c; lb. 75c

Siberian.—A very hardy variety, generally sown in the fall, and treated the same as spinach.

Pkt. 5c; oz. 10c; 4-oz. 25c; lb. 75c

Tall Green Curled.—Grows about two feet high; leaves dark green; curled and wrinkled; very hardy and is improved by a light frost.

Pkt. 5c; oz. 10c; 4-oz. 25c; lb. 75c

Grand Rapids

Very popular with private gardeners and as a lettuce for greenhouse forcing. It will stand shipping better than most curled sorts. Of quick growth and stands for some days after being fit to cut. The plant is upright, and forms a loose head or cluster of large, bright, green leaves, finely crimped and ruffled; rather thin, good flavor, crisp and tender.

Pkt. 5c; oz. 15c; 4-oz. 40c; lb. \$1.25.

EARLY TENNIS BALL.—One of the best heading lettuces, especially desirable for early planting outdoors. Plants medium size, having thick, bright green leaves, forming very solid heads, the inner leaves blanching to a rich, creamy white and crisp, tender and buttery.

Pkt. 5c; oz. 15c; 2-oz. 25c; $\frac{1}{4}$ -lb. 35c; lb. \$1.00.

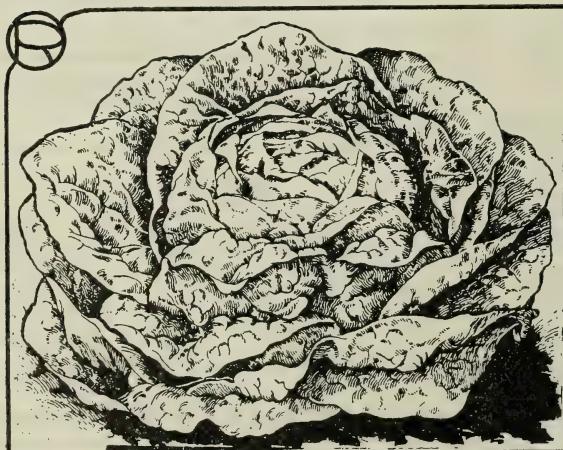
Simpson's Early Curled

A very extensively used early loose leaved, or clustering variety. Leaves light green, slightly frilled, crisp, sweet and tender. The sort is especially adapted for sowing thickly and cutting when the plants are young.

Pkt. 5c; oz. 15c; 2-oz. 25c; $\frac{1}{4}$ -lb. 35c; lb. \$1.00

BLACK SEEDED SIMPSON.—Popular sort; forms large, thin, loose leaves of light green color; very tender, crisp and of fine quality. A fine sort for summer, as it withstands the heat.

Pkt. 5c; oz. 10c; $\frac{1}{4}$ -lb. 30c; lb. \$1.00



Big Boston (See next page).

Thousand-Headed.—For stock feeding. See Field Seeds, pg. 43.

KOHLRABI

EARLY PURPLE VIENNA.—Fine early variety, with purple skin and white flesh.

Pkt. 5c; oz. 25c; 4-oz. 75c

Early White Vienna.—Similar to purple variety, excepting color.

Pkt. 5c; oz. 25c; 4-oz. 75c

LEEK

Carentan.—Mild and sweet; largest variety; hardy and of the finest quality.

Pkt. 5c; oz. 15c; 4-oz. 40c

AMERICAN FLAG.—Very broad, thick stems of good flavor.

Pkt. 5c; oz. 15c; 4-oz. 40c

LETTUCE



Grand Rapids Lettuce.

Our Motto:
Quality first,
price as low as
we can make it

Early Prize Head

This old standard sort still stands at the head of the large, thin-leaved, clustering varieties. The very large leaves are savoyed or crimped; bright green, tinged with red, and are exceedingly tender, crisp and sweet, forming a large, loose head. This variety is one of the very best for the home garden. Very attractive.

Pkt. 5c; oz. 15c; 4-oz. 35c; lb. \$1.00

Early White Cos—Self-folding

(Romaine) Cos Lettuce is distinct in having long, narrow, spoon-shaped leaves, folding into loose, sugar-loaf shaped heads which blanch better by having the outer leaves drawn about them and tied. Leaves yellowish white, crisp, tender and of good quality; a self-blanching lettuce of superior flavor. Sold also as Romaine or Trianon.

Pkt. 5c; oz. 15c; 2-oz. 25c; $\frac{1}{4}$ -lb. 40c; lb. \$1.25.

LETTUCE—Continued

R. R.'S TENDER CRISP

A distinct and extra choice variety for those who like curly, crisp, tender Lettuce of the finest quality.

Grows to a large size, makes most desirable heads of pleasing appearance, and retains its crispness and mild flavor to a greater degree during the hot summer months than any other crisp-head variety. While especially adapted for midsummer, it is most desirable also for spring and fall. The plants are of quick, strong growth; the leaves are of a soft, bright green, growing closely around the heads, which are tightly folded and blanched to a silvery white, and crisp and brittle as could be desired.

Pkt. 10c; ½-oz. 15c; oz. 20c; 4-oz. 50c

HANSON

Improved hard heading stock.

The leading head lettuce. We can recommend this as one of the very best. Heads green outside and white inside; grow to a remarkable size; very solid, and is deliciously sweet, crisp and tender. It withstands the hot sun.

Pkt. 5c; oz. 15c; 4-oz. 35c; lb. \$1.10

California Cream Butter

A very popular variety for autumn and winter use. Forms a very large head, which is very buttery and of a rich golden-yellow inside. The leaves are thick and of bright green, slightly tinged with brown on top of head, and the outer leaves are slightly spotted with inconspicuous brown spots. Easy to grow and a good shipping variety.

Pkt. 5c; oz. 10c; ¼-lb. 30c; lb. \$1.00

Immensity

A very large-heading variety; one of the largest of the cabbage sorts; larger than California Cream Butter, which it resembles in color and shape. It is especially adapted for planting in the fall and winter, and makes a fine, tender, buttery head. A number of our best local market gardeners have been growing it and find it unsurpassed.

Pkt. 10c; oz. 20c; 4-oz. 50c



R. R.'s Tender Crisp Lettuce.

Big Boston

Popular for outdoor culture, and also in demand as a compact, large heading, forcing sort. Plants very large, very hard and vigorous; leaves broad, comparatively smooth, but wavy at edge, thin, very hard and crisp; color bright, light green; the head slightly tinged with reddish brown. Grown extensively in the South for shipment North in the winter.

Pkt. 5c; oz. 15c; 4-oz. 40c; lb. \$1.25

Salamander.—Valued for its hardiness, withstanding to a marked degree heat and continued drought. Largely used for a fall crop. Esteemed very highly by market gardeners.

Pkt. 5c; oz. 15c; 4-oz. 40c; lb. \$1.25

May King

A very early new variety, forming fine hard heads within a few weeks after planting. It is medium sized, light green, with buttery but crisp heads. There is just a faint tint of brown on the head. We have had no end of praise from our friends and customers who have tried this variety. It is essentially a Spring sort and does well all Summer. Being of rapid growth and quick heading it is especially recommended for home garden and is universally esteemed. It came to us from one of the leading growers of Germany, and we are assured that it is as popular in Europe as America.

Pkt. 5c; oz. 15c; 4-oz. 35c; lb. \$1.25

We carry in stock Garden Hose, Tools and Supplies of all kinds. See pgs. 106-113.

MUSTARD

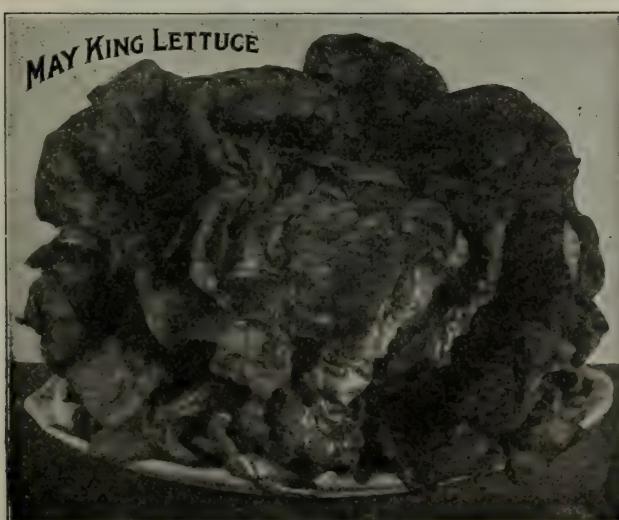
The leaves of mustard make excellent greens of sharp, pungent flavor, and are cooked the same as spinach or beet leaves.

SOUTHERN GIANT CURLED.—Large variety, forming a great mass of beautiful leaves, which are ruffled and finely curled on the edges; hardy, vigorous, highly recommended.

Pkt. 5c; oz. 10c; 4-oz. 20c; lb. 60c

White English.—Light green variety; tender leaves; seed light yellow.

Pkt. 5c; oz. 10c; 4-oz. 15c; lb. 40c



PLANT SMALL FRUITS around your garden. What's nicer than delicious fresh fruit, fresh from your garden? See Fruit Department, pgs. 93 to 100.

MUSKMELON

ROCKY FORD, OR NETTED GEM

The most popular and best seller among Muskmelons.

The fruit is oval, slightly ribbed, densely covered with coarse netting. Flesh thick; green, very sweet and highly flavored. The fruit is wonderfully uniform in shape and quality. Grown largely in Colorado and shipped in carload lots all over the country. The favorite everywhere.

Pkt. 5c; oz. 15c; 4-oz. 35c; lb. \$1.00

BURRELL'S GEM

Select Strain.—A new, medium-sized oval variety, well ribbed and covered with a fine grayish netting, and having salmon or red flesh. It is larger than Rocky Ford and of an entirely distinct flavor. There is a growing demand here for the fine-grained, smooth, salmon, red-fleshed Muskmelons, and Burrell's Gem seems to be one of the best in cultivation.

Pkt. 10c; oz. 20c; 4-oz. 40c; lb. \$1.25

THE HOODOO

One of the best of recent introductions. It is early and prolific. The fruit is of medium size, the seed cavity very small, the rind very thin indeed, and the edible fleshy part very thick and meaty. It is of orange or salmon color, the type much preferred now; but its great charm is its flavor, which is par excellence. Test it.

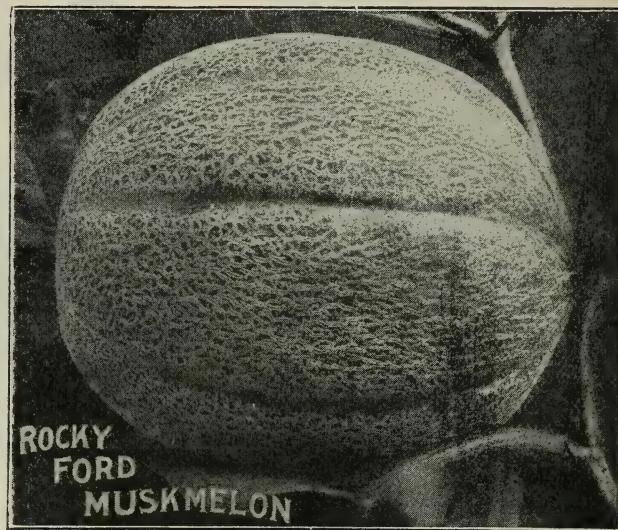
Pkt. 10c; oz. 20c; 4-oz. 50c; lb. \$1.50

MONTRÉAL IMPROVED NUTMEG.—Valued for its size and delicious flavor. Round in shape, with remarkably thick green flesh. One of our hand-somest varieties.

Pkt. 5c; oz. 15c; 4-oz. 40c; lb. \$1.25

OSAGE, OR MILLER'S CREAM.—Medium to large, flesh thick, deep salmon, of excellent quality, rich and sweet; skin dark green, slightly netted and ribbed. A favorite variety for the later markets.

Pkt. 5c; oz. 15c; 4-oz. 40c; lb. \$1.25



LARGE YELLOW CANTALOUP.—A distinct type and very popular with all who have tried it. The fruit is large, oblong, slightly ribbed and coarsely netted. The flesh is light yellowish-green, very sweet, crisp and delicious.

Pkt. 5c; oz. 10c; 4-oz. 25c; lb. \$1.00

KRIS KRINGLE

The Best of the Winter Casabas.

Do not pick until light streaks become quite yellow not pick until the light streaks become quite yellow. Stow away so they do not touch each other in a cool, dark place. When the rind becomes slightly softened and moist they are ready to eat. Some of the melons will actually keep until February.

Pkt. 10c; oz. 25c; 4-oz. 75c; lb. \$2.50

WATERMELON

ROUTLEDGE'S OREGON PRIZE

We offer this new Melon with the assurance that it is not only remarkably early, but as sweet, delicate and melting in flavor as any variety grown.

The flesh is of a deep scarlet; rind thin, and on this account is not a particularly good shipping sort, but is emphatically the variety for home use and sale. It will ripen in altitudes where it has not been thought possible to mature a good watermelon.

Pkt. 5c; oz. 15c; 1/4-lb. 40c; lb. \$1.25

Cole's Early.—One of the best early sorts; medium size, green skin and red flesh.

Pkt. 5c; oz. 10c; 4-oz. 25c; lb. 75c

KLECKLEY'S SWEET.—Unsurpassed for home use or near markets. Vine vigorous and productive; fruit of medium size, oval; color dark green; flesh very bright, rich red and exceedingly sweet. So crisp and tender that it will not stand shipping.

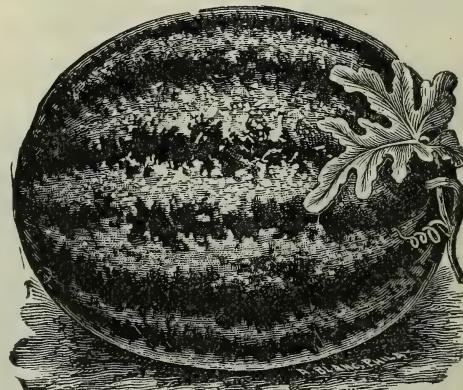
Pkt. 5c; oz. 10c; 4-oz. 30c; lb. 85c

Florida Favorite.—Of large size and excellent quality; fruit long, dark green, mottled and striped with lighter shade; rind thin but firm; flesh very bright, deep red, very sweet, tender and excellent.

Pkt. 5c; oz. 10c; 4-oz. 25c; lb. 85c

Cuban Queen.—A very vigorous grower; early, very solid and heavy; of most delicious flavor.

Pkt. 5c; oz. 10c; 4-oz. 25c; lb. 75c



Routledge's Oregon Prize.

Ice Cream.—Medium size and nearly round; solid scarlet flesh of finest flavor.

Pkt. 5c; oz. 10c; 4-oz. 25c; lb. 75c

Citron, Red Seeded.—Flesh white and solid; used exclusively for pickles and preserves.

Pkt. 5c; oz. 15c; 4-oz. 35c

FREE PREMIUMS.—Do not overlook our Premiums given with cash sale orders. See inside front cover.



MUSHROOM SPAWN

MUSHROOM CULTURE.—We have a 32-page booklet on Mushroom Culture, nicely illustrated, for 25c, postpaid. Free with an order for 10 bricks. (Other books, page 128.)

LAMBERT'S PURE CULTURE SPAWN.—Mushrooms may be grown in any place where conditions of temperature and moisture are favorable. A shed, cellar or cave may be utilized to advantage for this purpose. It is essential that the temperature be maintained from 53 to 60 degrees F., and that the moisture be properly regulated. Lambert's Pure Culture Spawn is far superior to the old-style varieties, and much better results can be obtained from its use. The bricks should be broken into pieces about two inches square and planted from 10 inches to a foot apart. Bricks weigh from 18 to 24 ounces. A brick will spawn 10 square feet of bed. With Lambert's Pure Culture Spawn it is impossible to raise poisonous mushrooms.

Price, per brick, 35c, postpaid. By express or freight, 10 bricks, \$2.25. Write for quantity price.

"Highest Quality"

NEW GIANT BROWN MILAN "1913 Novelty."

Offered this year for the first time by our foreign grower. This new onion comes from Northern Italy, where it is also called San Lorenzo. In color it is chestnut brown and grows to a very large size, and is very different in shape from any other kind, being top-shaped, broad and flat, tapering to the root. The flavor is very pleasant, but its greatest value is its extra long keeping qualities, six to eight months, it is claimed. Give this novelty a trial. Price: Original pkts. only this year, ea. 20c

ONION

True Pure Seed

AILSA CRAIG

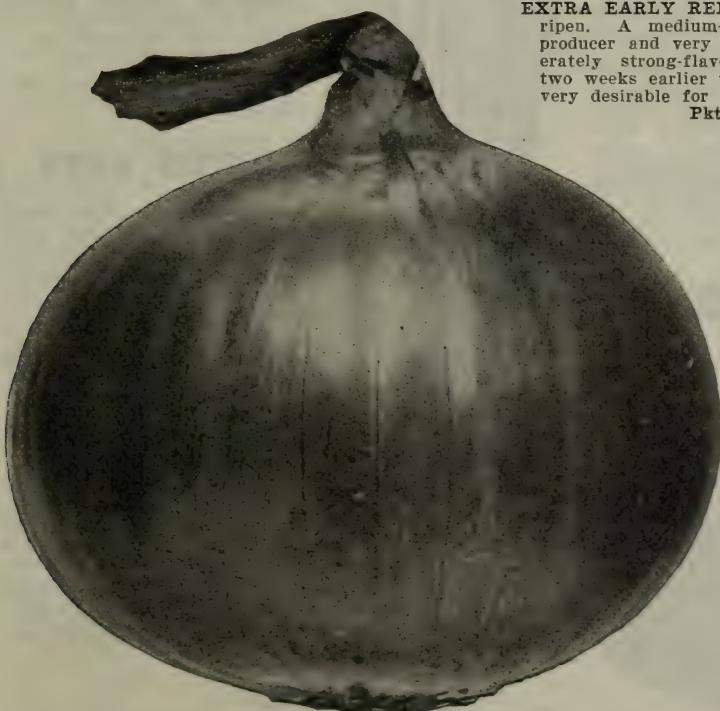
A magnificent variety of recent English introduction. Unsurpassed for exhibition purposes.

Very large, oval shaped, with straw-colored skin. When grown to perfection will weigh from 2½ to 3 pounds. Has attained great popularity among private gardeners for its all-round superiority and as an exhibition variety. The stock we offer is unexcelled and obtained direct from one of the best growers in England.

Pkt. 10c; oz. 35c; 4-oz. \$1.00

EXTRA EARLY RED FLAT.—The first Red Onion to ripen. A medium-sized, flat variety; an abundant producer and very uniform in shape and size; moderately strong-flavored and comes into use nearly two weeks earlier than the Large Red Wethersfield; very desirable for early market use.

Pkt. 5c; oz. 20c; 4-oz. 55c; lb. \$1.75



Oregon Danvers Onion.

OREGON YELLOW DANVERS

This is the variety planted almost entirely in the Northwest, particularly in Oregon. The largest crops of onions and the best keepers, bringing the highest prices in the Oregon and California markets, are the Oregon Yellow Danvers. The bulbs are uniformly large, of a half-globe shape, with small necks. It is the earliest, largest in size, most perfect in shape, the largest cropper and the best keeper, and as a market or table onion cannot be excelled. Our seed is grown specially for us by the best onion seed growers in Oregon. No onion grower can afford to plant anything inferior when such seeds can be obtained at following prices:

Pkt. 5c; oz. 20c; 4-oz. 50c; lb. \$1.75.

Yellow Danvers.—An old and well-known variety, flatter than above.
Oz. 15c; 4-oz. 50c; lb. \$1.50

ONION—Continued

ROUTLEDGE PRIZE TAKER

This onion has become a great favorite on account of its large size and great solidity. It is perfectly globe-shaped, with straw colored skin; the necks are very small and the onions always ripen up hard. An excellent keeper, exceedingly fine flavor, grows to an enormous size, onions weighing five pounds having been grown from seed the first year.

Pkt. 10c; oz. 20c; 4-oz. 60c; lb. \$1.75

Crystal White Wax—New

A large, pure white, flat onion. During the last few years it has become very popular. Extremely early and one of the mildest and sweetest of all. It is very fine for slicing, the color being so clear and pure. We offer the genuine imported true seed.

Pkt. 10c; oz. 40c; 4-oz. \$1.50

LARGE RED WETHERSFIELD.—The standard variety of the red onions. Of large size, a heavy yielder, and one of the best for keeping. Skin a deep purplish red.

Pkt. 5c; oz. 20c; 4-oz. 50c; lb. \$1.75

YELLOW GLOBE DANVERS.—One of the most extensively used yellow onions. Bulbs of good size, uniformly globe shaped, with small neck, and ripen very evenly. Flesh white, crisp and of mild and excellent flavor. An enormous yielder and a fine keeper. We offer a select strain, unsurpassed.

Pkt. 5c; oz. 20c; 4-oz. 55c; lb. \$1.75

SOUTHPORT RED GLOBE.—An early maturing, large-sized, globe-shaped onion with deep red skin; flesh fine-grained, very mild and tender.

Pkt. 5c; oz. 15c; 4-oz. 50c; lb. \$1.75

AUSTRALIAN BROWN.—One of the most popular and most sought after onions in many markets. Its remarkable keeping qualities and handsome appearance have brought it rapidly to the front. This onion resembles the Oregon Yellow Danvers in general appearance, but has a clear, amber-brown skin that attracts buyers. It matures early, ripens uniformly and will keep in good condition longer than any other onion. We offer the true, genuine seed.

Pkt. 5c; oz. 15c; 4-oz. 50c; lb. \$1.75

BARLETTA.—The earliest and smallest onion grown; of great value for pickling or table use.

Pkt. 5c; oz. 20c; 4-oz. 65c; lb. \$2.35

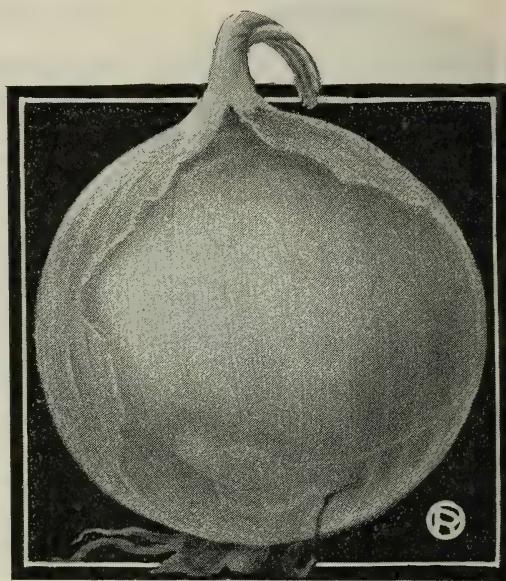
SOUTHPORT WHITE GLOBE.—An enormous yielder and superb keeper; perfect globe-shaped, very large, clear white skin and considered one of the handsomest varieties grown. We offer the very finest stock obtainable.

Pkt. 10c; oz. 20c; 4-oz. 65c; lb. \$2.35

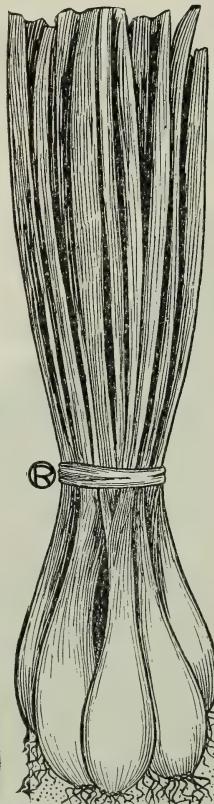
Special
Onion Fertilizers.
See page 41.



Australian Brown



Routledge Prize Taker.



Green Onions
from Sets.

QUEEN.—A white variety, prized for pickling on account of its small size and remarkable keeping qualities. Of very quick growth, flat-shaped and fine flavor.

Pkt. 5c; oz. 20c; 4-oz. 65c; lb. \$2.35.

WHITE PORTUGAL, OR SILVERSKIN.—The finest flavored of all the white-skinned onions. Quite early, flat-shaped and a fine cropper. Often used for pickling when young.

Pkt. 10c; oz. 30c; 4-oz. 90c; lb. \$3.00.

ONION SETS

Bottom Onion Sets.—These small onions are grown from seed that have been sown too thick to attain a large size. The small onions (about $\frac{1}{2}$ -inch in diameter) thus obtained are planted out and are ready in a short time to pull as green onions for the table.

Per lb. 15c, postpaid 25c; 10 lbs. \$1.25. Write for low prices by the 100 lbs.

Top Sets.—Lb. 20c, postpaid 30c.

Multipliers.—Lb. 25c, postpaid 35c.

Shallots.—Valuable for bunching or for an early crop. The smallest sets make fine bulbs of good size, while the larger ones produce a cluster of small to medium-sized bulbs; light brown skin; mild, white flesh.

Per lb. 25c, postpaid 35c.

OKRA

Improved Dwarf Green.—Very productive; long, slender green pods.

Pkt. 5c; oz. 10c; 4-oz. 25c

DON'T PRACTICE FALSE ECONOMY BY BUYING LOW-PRICED SEEDS. OUR MOTTO—QUALITY FIRST, PRICE AS LOW AS WE CAN MAKE IT.

PARSNIP

SWEET MARROW

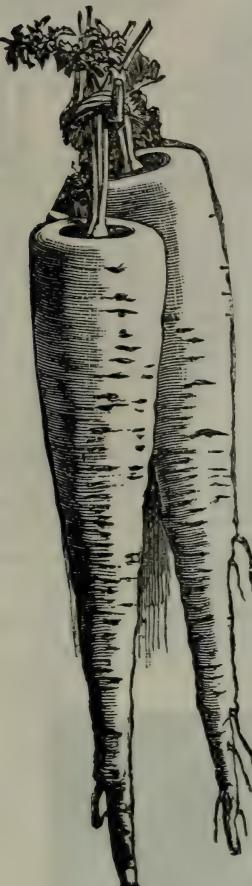
This fine new parsnip of English origin is offered with full confidence that it will become a prime favorite with all who use it. It is very fine grained and exceedingly sweet, while the peculiar "parsnip" flavor is fully preserved. The roots are unusually smooth and attractive in appearance. The best of all parsnips for the private or market garden.

Pkt. 5c; oz. 10c; 4-oz. 30c; lb. \$1.00

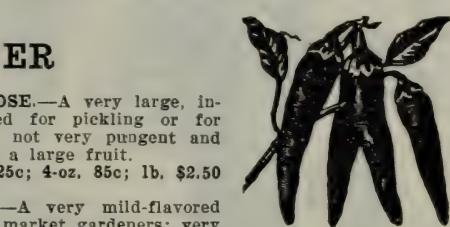
HOLLOW CROWN.—The most popular variety; medium length roots, very smooth and of the finest quality. Derives its name from a depression at top of crown or root; very fine table sort.

Pkt. 5c; oz. 10c; 4-oz. 30c; lb. 90c

"WILGROW," the best fertilizer on the market. A 25c package will do wonders. Read more about it, pg. 101.



Parsnip



Red Chili



Bullnose

PEPPER

LARGE BELL, OR BULLNOSE.—A very large, inverted bell-shaped, valued for pickling or for filling; thick, hard flesh, not very pungent and remarkably early for such a large fruit.

Pkt. 5c; oz. 25c; 4-oz. 85c; lb. \$2.50

DWARF EARLY SQUASH.—A very mild-flavored variety, popular with the market gardeners; very thick flesh; fruit very smooth and almost round; of dwarf growth and great productiveness; one of the earliest.

Pkt. 5c; oz. 25c; 4-oz. 85c

RED CHILI.—A rather small, bright red variety about 2 inches long and pointed; the pods are used in making chili sauce, and are very pungent and hot.

Pkt. 5c; oz. 25c; 4-oz. 85c

CAYENNE.—Long, red, pointed pods; very strong and used largely for making pepper sauce; popular variety.

Pkt. 5c; oz. 25c; 4-oz. 85c

CHERRY RED.—Rich, glossy, scarlet fruit at maturity; small, smooth and round; of dwarf habit.

Pkt. 5c; oz. 25c; 4-oz. 85c

PUMPKIN

WINTER LUXURY

An enormously productive variety of medium size and superior keeping qualities. Of roundish shape, about 10 inches in diameter; golden russet color, with finely netted, deep golden flesh; sweet and tender. By far the best for pies; try it.

Pkt. 5c; oz. 15c; 4-oz. 35c; lb. \$1.00

SMALL SUGAR.—Fine grained, very sweet and excellent keeper. Skin deep orange-yellow.

Pkt. 5c; oz. 10c; 4-oz. 25c; lb. 75c

KING OF MAMMOTHS

The largest of all the pumpkins; grow this variety to win the prizes at the Fair.

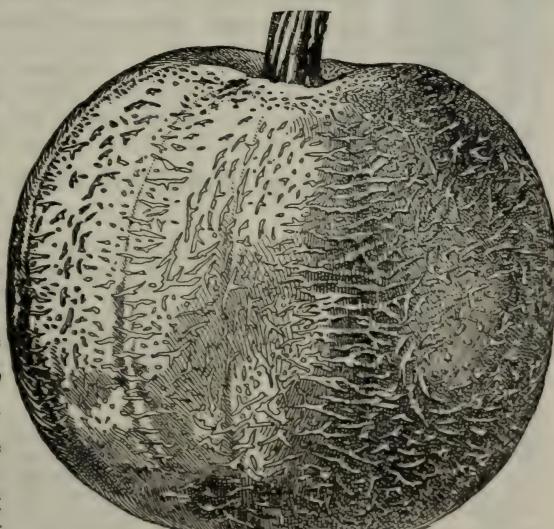
Pkt. 10c; oz. 15c; 4-oz. 50c; lb. \$1.50

CONNECTICUT FIELD.—The best for field culture and excellent for stock.

Pkt. 5c; oz. 10c; 4-oz. 20c; lb. 50c

LARGE SWEET CHEESE.—A popular variety; fruit flattened; skin mottled light green and yellow; flesh yellow, thick and tender; very nutritious and of excellent quality; a most productive variety.

Pkt. 5c; oz. 10c; 4-oz. 20c; lb. 60c



Winter Luxury Pumpkin

Seed and Reference Tables.

FOR COMPLETE SEED AND PLANT TABLES, AMOUNT TO PLANT, ETC., SEE COMPLETE REFERENCE TABLES INSIDE BACK COVER. ALWAYS REFER TO "INDEX," PAGES 1-2, FOR ANYTHING WANTED.

"Highest Quality"**GARDEN PEAS****Hand Picked**

Add 10c to pound prices if wanted by mail.

Another short crop of Garden Peas makes almost a famine. This is the third year in succession that the seed crops of Peas the world over are reported very short. Select new crop Peas are very scarce and unusually high.

Extra Early Hardy Peas

You can plant these in the fall or very early spring before it is safe to plant the wrinkled varieties; while they are not as sweet as the later sorts, they are most desirable and popular on account of their extreme earliness; follow with wrinkled sorts when ground is warm.



Alaska.

**Duke's Best Extra Early
—A prize strain**

This is very much the best early pea of the smooth-seeded varieties; is very much sweeter and also earlier. The vines make very quick growth, about 18 inches high. The pods are always well filled and ripen practically all at one time.
Large pkt. 10c, lb. 20c, 10 lbs. \$1.75.

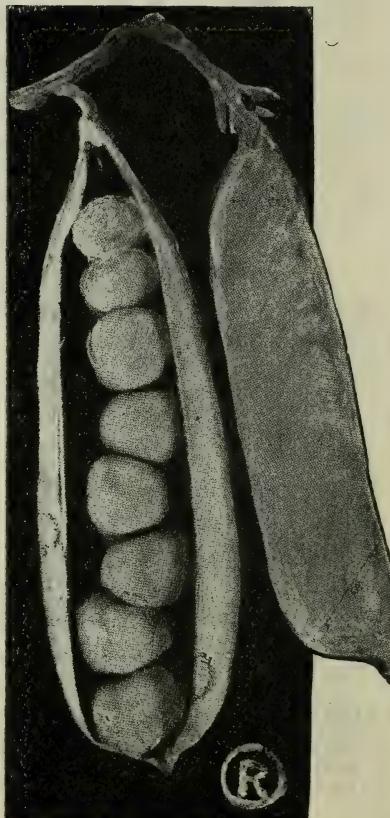
There is a vast difference in "strains" of garden peas. You will find our stock "very superior," healthy, vigorous and true, much better than the average seed sold by wholesale dealers and jobbers.

Early Wrinkled Peas**American Wonder**

The earliest of the dwarf, wrinkled varieties. Vines branching, about ten inches high and covered with well filled pods of medium size, containing five to eight large, exceedingly sweet, tender and well flavored peas. A great favorite for planting in the small garden on account of its short, compact growth. We have taken great pains in growing our stock and know it to be much better than that usually sold.
Large pkt. 10c, lb. 20c, 10 lbs. \$1.75

IMPROVED LITTLE GEM (Premium Gem)

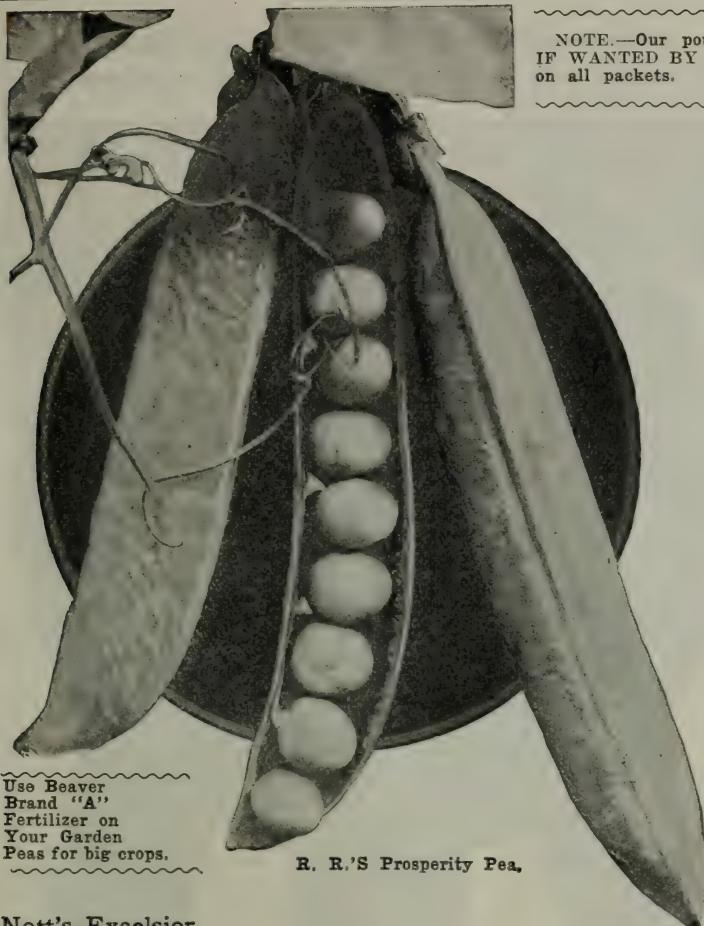
The vines are of dwarf growth and produce an abundance of round, well filled pods of good size, about three inches long only a few days after the American Wonder. The peas are green, wrinkled, of sweet, delicious flavor and excellent quality. One of the best for family use. It remains fit for use longer than the American Wonder and Nott's Excelsior, and thought by many to be sweeter. Height, 15 to 18 inches.
Large pkt. 10c, lb. 20c, 10 lbs. \$1.75, 100 lbs. \$12.50



Improved Little Gem.

Market Gardeners who buy Peas in quantity should write us for prices, stating variety and amount wanted.

NOTE.—Our pound prices do not include postage.
IF WANTED BY MAIL add 10c lb. We pay postage
on all packets.



R. R.'S Prosperity Pea.

Use Beaver
Brand "A"
Fertilizer on
Your Garden
Peas for big crops.

Nott's Excelsior

A deservedly popular variety; an enormous yielder, and of the very choicest flavor; pods well filled with six to eight peas, packed very closely together; valued highly for the home garden, and for all-round excellence is second to none; 15 inches high.

Large pkt. 10c, lb. 20c, 10 lbs. \$1.75, 100 lbs. \$12.50

Thomas Laxton

An early wrinkled variety of great merit. Vine three to three and one-half feet high. Pods large and long; uniformly well filled. The green peas are very large, fine colored and unsurpassed in quality.

We are certain that the earliness and productiveness of this pea needs only to be known to make it one of the most popular sorts for the market and home garden.

Large pkt. 10c, lb. 25c, 10 lbs. \$2.40

Dwarf Telephone

Of English origin and introduction. The striking features are its large pods and the way in which they are heaped up in ridges on the short, strong vines. The pods are nearly double the size of American Wonder or Little Gem, and are always well filled with large peas of most excellent quality. The vines are dwarf, strong and thrifty, require no support, making an ideal garden variety.

Large pkt. 10c, lb. 20c, 10 lbs. \$1.85

MCLEAN'S ADVANCER.—Noted for its great productiveness, handsome pods and delicious flavor. Ripens immediately after the extra early sorts and grows about 30 inches high.

Large pkt. 10c, lb. 20c, 10 lbs. \$1.60

Yorkshire Hero

One of the largest, sweet, wrinkled kinds; vines strong and spreading; pods of good size and well filled; much in use, and has enjoyed a long popularity; medium late, bears a long time; height, 2½ feet.

Large pkt. 10c, lb. 20c, 10 lbs. \$1.75, 100 lbs. \$12.00

STRATEGEM.—A semi-dwarf variety with large leaves and large pods. The peas are dark green, wrinkled, and of good quality. It is planted in large quantities by gardeners for market. In quality it is unsurpassed, the peas when cooked being of the most delicious sweetness. Vines grow 18 inches to 2 feet high, and as they are very stocky, they do not have to be brushed;

Select Hand-Picked—Large pkt. 10c, lb. 20c, 10 lbs. \$1.75, 100 lbs. \$12.50

NOTE.—This is the third year in succession with a short Pea crop, therefore good seed is very scarce and unusually high. Beware of lower prices, which will mean old or inferior seed.

R. R.'S PROSPERITY

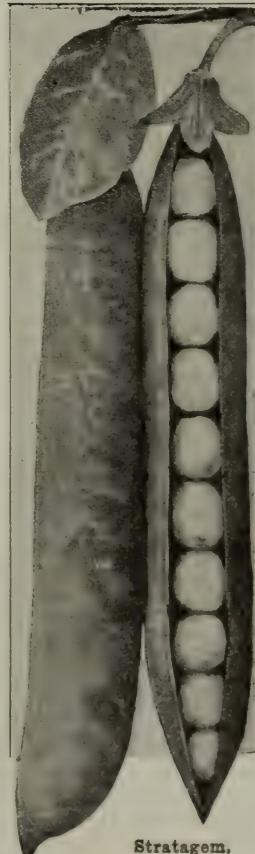
The earliest large podded, sweet garden Pea to date.

This grand, large podded, extremely early, prolific variety is vigorous and robust, growing to a height of about three feet. It is not only an abundant producer, but bears continually throughout the season. It is exceedingly early for a wrinkled variety, being only a few days later than the earliest smooth sorts.

The pods are very large, and are invariably well filled with from eight to ten sweet, luscious, tender wrinkled peas of large size and delicious flavor.

The peas remain tender and sweet for some time after they are large enough to use. (See cut.)

Hand-picked, selected seeds. Large pkt. 10c, lb. 25c, 10 lbs. \$2.40.



Stratagem.

Large Podded, Late or Main Crop Peas—Continued

Add 10c per pound if wanted by mail. Special quantity price on request.

ROUTLEDGE PRIZE

A new, sweet, wrinkled, mammoth podded Pea of extra value.

This grand new pea resembles the Telephone in color of pod and foliage, and in habit of growth; but the pods are larger and contain more peas. A bushel of Routledge Prize pods will shell out nearly twice as many peas as a bushel of Telephone. The vines are enormously productive, being completely covered with immense long pods, well filled with from 8 to 11 large peas of the richest flavor. This variety grows about 4 feet high and, as an abundant cropper, is superior to all other sorts.

Nothing in the line of peas excels the Routledge Prize in richness, sweetness and flavor; we are sure our customers will agree with us after testing this new pea. Try them and report.

Stock limited; order early if you do not wish to be disappointed.

Large Pkt. 15c, lb. 25c, 10 lbs. \$2.00.

Telephone

One of the most popular and largest peas we have. Vines attain a height of 4½ feet, bearing profusely the extra long, handsome pods; tender, sweet and superb flavor. We offer a very carefully rogued, select strain of unusual merit.

Large pkt. 10c; lb. 20c; 10 lbs. \$1.75, 100 lbs. \$14.50.

Dwarf Sugar (Edible Pods).—

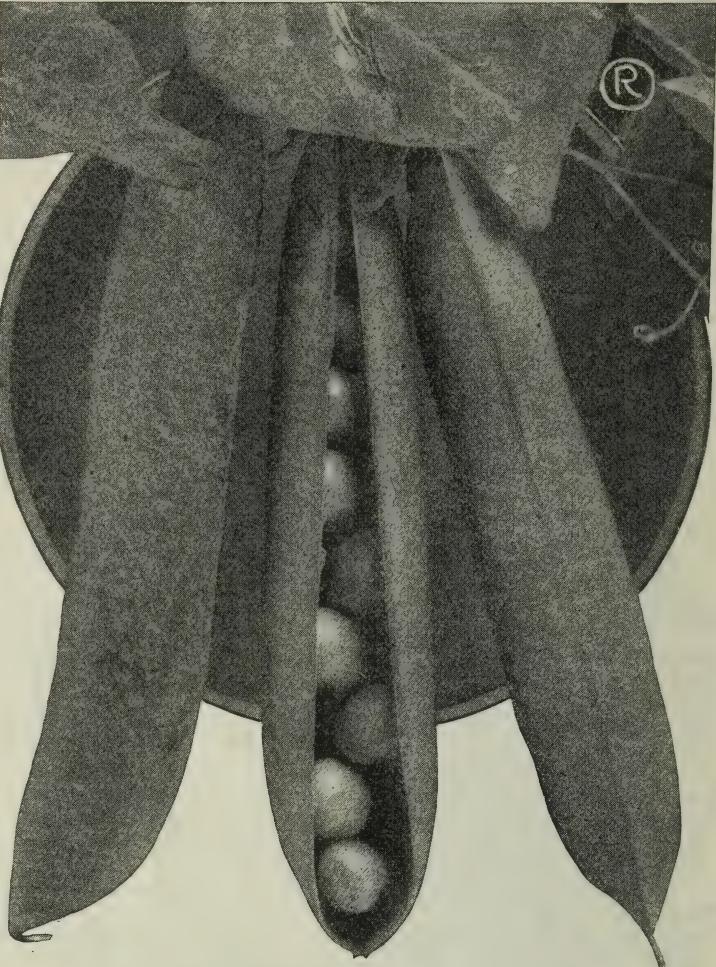
Can be used in a green state like string beans; very sweet and melting.

Large pkt. 10c, lb. 25c, 10 lbs. \$2.00.

Champion of England

An old standard variety that is still unsurpassed for delicious flavor. Enormously productive; height 4 feet; unexcelled for the home garden.

Large pkt. 10c, lb. 20c, 10 lbs. \$1.65, 100 lbs. \$11.00



Routledge Prize—New Pea of Extra Value.

Do You Feed Your Growing Crops as You Do Your Stock?

Or are you actually starving your wheat, oats, hops, vegetables or whatever it may be, just because it never has occurred to you in this light before?

Beaver Brand Animal Fertilizers supply the necessary plant foods. They will increase your crops per acre. They will double the money invested.

See pg. 41 and write for "Fertilizer Booklet." Be up-to-date and progressive.

PARSLEY

Champion Moss Curled.—An English strain, with moss-curled foliage and a very vigorous grower. Pkt. 5c, oz. 15c, 4 oz. 40c, lb. \$1.00

ARLINGTON EXTRA CURLED.—This is the very choicest strain obtainable, and is a selection from those plants having the greatest possible curl to the leaves, and the darkest green color; a very vigorous grower, a healthy yielder; will stand heat and drought better than any other.

Pkt. 5c, oz. 15c, 4 oz. 50c, lb. \$1.50



Parsley Leaf.

Routledge Seed & Floral Co's PURE SEED POTATOES



We offer a few varieties of special merit that we recommend to our friends and customers. We think it is folly to plant ordinary or common stock. Many gardeners insist on the best vegetable seeds, but plant any old kind of potatoes, not knowing whether they are early or late. Get a start of some of our select seed stock and you will be more than pleased with the results.

ABOUT PRICES—Prices are subject to important market changes. Ask for quotations on larger lots. Good, true, healthy stock of the best named Seed Potatoes are not plentiful and are always in demand. Order early, before stocks advance. We look for higher prices late in the Spring.

Extra Early Varieties

EXTRA EARLY IRISH COBBLER

The most reliable extra early white-skinned potato; so uniform in growth that every hill seems to ripen all at one time. Form oval and round; skin lightly netted, creamy white, and having few eyes, which are quite shallow; flesh pure white and of the finest quality; not excelled by any variety; its earliness, uniformity, large yield, fine quality and very handsome appearance make the Extra Early Cobbler a popular and profitable variety for market or home garden use; compact grower and can be planted closer.

Prices: 10 lbs. 50c, 50 lbs. \$2.00, 100 lbs. \$3.00.
By mail, postpaid, lb. 30c, 3 lbs. 75c.

EXTRA EARLY BOVEE

One of the most popular and earliest potatoes grown. If you get the true Bovee it is hard to beat. It produces large crops of even, good sized tubers of excellent quality. On good soil and well fertilized it will out-yield most any other variety. Be sure you get true stock; much of the Western seed is badly mixed. Color of potato pink or flesh color. See cut next page.

Prices: 10 lbs. 40c, 50 lbs. \$1.40, 100 lbs. \$2.50.
By mail, postpaid, lb. 25c, 3 lbs. 60c.

NORTH POLE.—A new early sort

In this new sort we have an early potato of superior merit. It is extra early and much more productive than most early varieties. Potatoes oblong, smooth and very even in size, averaging about four inches. Eyes are shallow, skin flesh color or pale pink. The quality is superb.

Prices: 10 lbs. 60c, 50 lbs. \$1.75, 100 lbs. \$2.75.
By mail, postpaid, lb. 30c, 3 lbs. 75c.

EARLY ROSE

This variety has been a great favorite for many years. Our stock is as fine as can be obtained.

Prices: 10 lbs. 40c, 50 lbs. \$1.35, 100 lbs. \$2.25.
By mail, postpaid, lb. 20c, 3 lbs. \$50.

Cooks, Wash., April 10, 1912.

Dear Sirs—I am enclosing you another order for potatoes. I must say that I am very well pleased with the order you sent me. Everything came in first-class shape and you will get all my orders from this on.

Many thanks for the premiums—they were fine.

Yours respectfully,

F. G. WILSON.

POTATO FERTILIZER

Have you ever tried using a good potato fertilizer rich in phosphoric acid and potash, keeping account of the expense and the increased yield? Try it; you'll find it most profitable. The vines will be strong, healthy and productive, and the tubers even, smooth, solid and of better quality.

USE BEAVER BRAND
"E" POTATO FERTILIZER, 500 LBS. OR MORE
PER ACRE ALONG THE
ROWS AT PLANTING
TIME. SEE PG. 41.

Extra Early Irish Cobbler.



POTATOES NOT DUG!! Why? Not Worth it—of course not.

What can you expect when farmers save for seed, year after year, little "cull potatoes" that can't be sold. They are weak, "run out" and diseased.

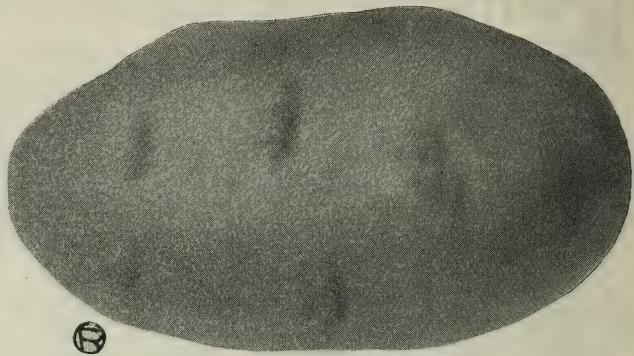
The blight was bad this year, but our own potato fields were not affected at all. Why? Because we plant strong, healthy tubers grown especially for seed.

Seed Potatoes—Continued—Main Crop Varieties

AMERICAN WONDER

The American Wonder is one of the best all-round white potatoes in cultivation and very popular for early or main crop. It is practically blight-proof, a strong grower, a great producer; tubers white, uniform in size, elongated, of excellent quality. It is a potato sought after and desired by our commission men, potato buyers, shippers and dealers, therefore a most profitable sort to plant. If planted early will be ready to use as soon as Early Rose, and has the advantage of being white.

Prices: 10 lbs. 50c, 50 lbs. \$1.35, 100 lbs. \$2.25. By mail, postpaid. at 20c lb., 3 lbs. 50c.



PRIDE OF MULTNOMAH

A superb, new, blight-proof potato

This new potato, originating with one of our most reliable Oregon growers, has made a record for itself very quickly, and will no doubt be the variety mostly planted for main crop as soon as seed can be distributed.

Pride of Multnomah (see illustration below) is the ideal in shape and color. It is reported to be the heaviest yielding, most even growing main crop variety. The skin is smooth and white, eyes shallow and cooking qualities unexcelled, being fine grained and of snowy whiteness either boiled or baked.

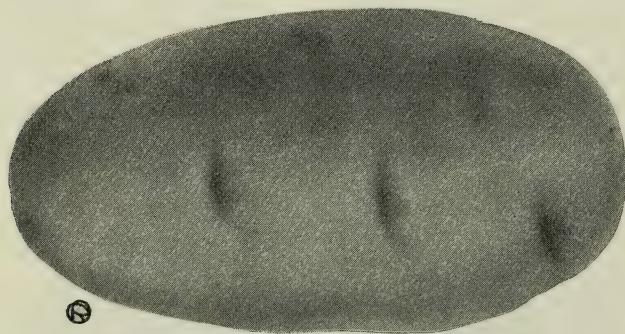
Reports from many sections this year say that the blight did not affect it. Withstands drought better than most varieties.

Prices: 10 lbs. 60c, 50 lbs. \$1.75, 100 lbs. \$2.75. By mail, postpaid, lb. 25c, 3 lbs. 60c.

HUNDRED FOLD

Most profitable of all for a medium early or main crop. While this is not a new introduction, it has only recently been planted here. Its extra good quality has induced us to grow and offer it to our customers. Many growers say it is far superior to the American Wonder, which is a strong endorsement. Hundred Fold is an oblong potato, slightly flattened, white in color, a good looker and a quick seller. It will out-yield the American Wonder 25 per cent. It is of the finest quality, cooking up white and floury, either baked or boiled, and is also an excellent keeper. An excellent variety for home gardens.

Prices: 10 lbs. 50c, 50 lbs. \$1.40, 100 lbs. \$2.50. By mail, postpaid, lb. 20c, 3 lbs. 50c.



Pride of Multnomah.

RHUBARB or Pie Plant

BURBANK'S CRIMSON WINTER

The new variety, which has become very popular and profitable to the grower, has a delicious fruity flavor, is extremely hardy, very prolific and very quick growing. Produces good stems all winter and spring.

Pkt. 10c; oz. 60c; 4-oz. \$1.75

VICTORIA, OR MAMMOTH.—Very large; most popular variety. Pkt. 5c; oz. 15c; 4-oz. 45c; lb. \$1.50

RHUBARB ROOTS

From October to June we can always supply one or two-year-old Rhubarb Roots. Customers will save much valuable time by ordering roots instead of seed. For prices, etc., see page 16.

Extra Early Bovee. (See pg. 35.)

GREAT DIVIDE for main crop

Every Potato saleable size; no "seconds"

A strong, healthy, vigorous grower, with abundant deep green foliage, capable of withstanding heat and drought. The tubers lie closely together in the hill and are handsome; oblong, thick and round in form, holding thickness well out to the ends; few and shallow eyes skin pure white, quite thin but firm and tough, readily pared with a minimum of waste, while the table quality is of the choicest, the flesh being pure white, dry and floury. It cooks quickly with a delicious nutty flavor. A most desirable and profitable variety.

Prices: 10 lbs. 60c, 50 lbs. \$1.75, 100 lbs. \$2.75. By mail, postpaid, lb. 25c, 3 lbs. 60c.

SIR WALTER RALEIGH

We recommend this potato for a main late crop. It can be planted as late as July 1 and still mature a good crop. Especially valuable for low land on this account. Our grower says it has made the best continuous record of all the late varieties for yield, size, smoothness and handsome appearance. The tubers are good size, nearly round in shape but flattened—very few small ones. Skin is pure white, thin and transparent; eyes few and very shallow. It will do well on low ground or clay, where other potatoes would not be profitable.

Prices: 10 lbs. 50c, 50 lbs. \$1.40, 100 lbs. \$2.50. By mail, postpaid, lb. 20c, 3 lbs. 50c.

Sweet Potato Plants

Rooted plants ready in May. The young plants should be set out in May or June in hills 5 inches above the ground level and 4 feet apart. A light soil and sunny location is preferable. Have your order booked now and be sure of plants when ready.

Plants 30c dozen; \$1.25 per 100, postpaid; \$7.00 per 1000 by express.

We sell Potato Planters.
They save "backache."
See pg. 112.

FRENCH GROWN RADISH SEED



The Best Early Round Radishes

R. R.'s SCARLET GEM.—This splendid radish is the very finest early strain of the round, bright red radishes. Nothing can surpass its table excellence or its beauty. The skin is bright scarlet, flesh pure white, crisp, tender and of delicious quality. Pkt, 5c; oz, 10c; 4-oz, 30c; lb, 60c

SCARLET TURNIP, WHITE TIPPED (No. 5).—A beautiful variety, deep scarlet with white tip. Very early. Has small top and may be planted closely. It is most attractive in appearance and cannot fail to give satisfaction; very popular as a market sort. Pkt, 5c; oz, 10c; 4-oz, 25c; lb, 60c

SCARLET GIANT (No. 6).—The largest early scarlet turnip-shaped radish. But, notwithstanding its immense size, does not get hollow and pithy. The flesh is a sparkling white, solid, crisp, juicy and of the mildest flavor. The bright, deep crimson color of the skin remains quite constant. Pkt, 5c; oz, 10c; 4-oz, 30c; lb, 70c

EARLY SNOWBALL (No. 4).—A grand improvement on the White Box or White Turnip Radish; very early, of a clear white color, solid, juicy, crisp, tender and unsurpassed in flavor. Pkt, 10c; oz, 10c; 4-oz, 30c; lb, 75c

The Four Best Long Radishes

WHITE ICICLE (No. 3).—This superb radish is pure white and most attractive. It is not only crisp and tender when young, but retains these qualities until the roots attain large size. It is ready for use almost as quickly as the early turnip-shaped sorts; excellent for successive sowing to give a continuous supply of tender, crisp radishes throughout the season.

Pkt, 5c; oz, 10c, 4 oz, 30c, 1b, 80c

LONG BRIGHTEST SCARLET, WHITE TIPPED (No. 1).—One of the brightest and handsomest scarlet radishes known, and a decided improvement in earliness and color over other varieties of this class. Roots mature quickly and continue in good condition until full grown.

Pkt, 5c; oz, 10c; 4-oz, 25c; lb, 60c

LONG CARDINAL (No. 2).—Grows perfectly straight and smooth, six to seven inches in length. Skin scarlet, very thin; the flesh crisp, brittle and of delightful flavor; the finest long red radish in existence, as it remains a long time in perfect condition for the table.

Pkt, 5c, oz, 10c, 4 oz, 30c, 1b, 70c

WHITE STRASBURG.—Even when comparatively small this variety is in good condition for use, and continues crisp and tender until matured, when the roots are four to five inches long and about two inches in diameter. This is considered one of the best large summer sorts.

Pkt, 5c; oz, 10c; 2-oz, 15c; 4-oz, 25c; lb, 75c

WELL-KNOWN POPULAR VARIETIES. (All 50 Pkt.)

Early Scarlet Turnip.—Small top; of quick growth; mild and crisp.	Oz, 10c; 4-oz, 25c; lb, 60c
Early Deep Scarlet, Olive Shaped.—Excellent deep red, early, crisp.	Oz, 10c; 4-oz, 25c; lb, 70c
French Breakfast (No. 7).—Very popular; bright scarlet, tipped white.	Oz, 10c; 4-oz, 25c; lb, 60c
Early Long Scarlet, Short Top.—Straight, smooth, brittle and crisp; excellent sort.	Oz, 10c; 4-oz, 25c; lb, 60c
Lady Finger, or White Vienna.—Of rapid growth and beautiful shape; skin and flesh snow-white; very juicy, firm, crisp and tender.	Oz, 10c; 4-oz, 25c; lb, 60c
Early White Turnip.	Oz, 10c; 4-oz, 25c; lb, 60c

WINTER RADISHES

The merits of Winter Radishes are little appreciated. These grow to large size and keep well for winter and spring use. Sow seed in July and August. Early planting is not advisable.

SAKURAJIMA.—Japanese variety; grows to enormous dimensions; globe in shape. The skin is white and the flesh is always crisp and tender.

Pkt, 10c, oz, 20c, 4 oz, 60c

California Mammoth White.—Pure white. The flesh is tender and crisp, keeping well through the winter.

Pkt, 5c, oz, 10c, 4 oz, 30c, 1b, 80c

CHINA ROSE.—Bright rose color, flesh firm and

piquant; largest at the bottom. One of the best.

Pkt, 5c, oz, 10c, 4 oz, 30c, 1b, 80c

Long Black Spanish.—Very popular; latest, as well as the hardest. Roots of medium size, oblong, black.

Pkt, 5c; oz, 15c; 4-oz, 25c; lb, 75c

Round Black Spanish.—Three or four inches in diameter; flesh white; good keeper.

Pkt, 5c; oz, 10c; 4-oz, 25c; lb, 75c

SQUASH

No. 1—Yellow Bush Scallop



No. 2—White Bush
Scallop
No. 3—Crookneck

Mammoth White Bush Scallop

The fruit is a beautiful, clear, waxy white; superior in size and beauty, and is quite uniformly warted. The handsomest of the scalloped squashes. The stock we offer is exceptionally true to type.

Pkt. 5c; oz. 10c; 4-oz. 25c; lb. 90c

Yellow Bush Scallop

A very early, flat, scallop variety of large size; color yellow; flesh pale yellow and well flavored. Has a very small seed cavity.

Pkt. 5c; oz. 10c; 4-oz. 25c; lb. 90c

Fall and Winter Varieties

Boston Marrow

A popular variety, with large oval fruit; skin bright reddish orange, with light cream netting; flesh orange, fine-grained and of excellent quality. This is the most popular variety for canning. The fruit makes a rich orange-red and deliciously flavored dish. Pkt. 5c, oz. 10c, 4 oz. 30c, lb. 70c

Mammoth Chili

The largest of all squashes, growing to an enormous size, often weighing over 200 pounds, while its rich, fine flavored flesh insures its value for all purposes. Its size makes it valuable for stock feeding. Pkt. 5c, oz. 15c, 4 oz. 40c, lb. \$1.25

Golden Hubbard

The same in size, shape and quality as the well-known Hubbard Squash, except that it is a bright red or golden color and somewhat earlier. It is also a long keeper. Considered by expert judges to be one of the very best fall and winter sorts yet introduced. Matures before the frosts; is vigorous and wonderfully productive. In flavor it has no equal. Pkt. 5c; oz. 15c; 4-oz. 40c; lb. \$1.25

Golden Summer Crookneck

Early and prolific. The fruits are of the true crookneck type, heavily warted and of light golden color. Fruits when matured are about one foot long. One of the most popular sorts for home and market. Pkt. 5c; oz. 15c; 4-oz. 30c; lb. 90c

Vegetable Marrow

A large, oblong variety, producing fruit which is dark green at first, becoming marbled and striped with yellow and lighter green as they mature.

Pkt. 5c, oz. 10c, 4 oz. 30c, lb. 90c

New Delicious

This new fall and winter squash resembles the old Hubbard; flesh exceedingly thick, compact, fine-grained; color golden orange. The paramount merit of this variety is surpassing quality. The flesh is meaty, granulated, tender and almost of mealy dryness, cooking sweet and rich, whether steamed, baked, boiled or made into pies.

Pkt. 5c; oz. 15c; 4-oz. 40c; lb. \$1.25

True Hubbard

One of the best of the winter squashes. Vines vigorous and very productive. Fruit large, heavy, moderately warted, with very hard shell. Skin uniformly dark bronze green. Flesh bright orange-yellow, fine grained, thick, dry and richly flavored. Can be kept in good condition until spring. It is esteemed by many to be as good baked as the sweet potato. Our stock is carefully selected in regard to quality of the flesh and color of the shell, and is much superior to most seed offered. Pkt. 5c, oz. 15c, 2 oz. 25c, 4 oz. 40c, lb. \$1.25

SPINACH

IMPROVED THICK-LEAVED.—A variety which grows very rapidly, forming a cluster of large, very thick, slightly wrinkled leaves of fine color and quality when cooked; best for market gardeners.

Pkt. 5c; oz. 10c; 4-oz. 15c; lb. 40c

LONG STANDING.—An improved variety of excellent quality for general use; slow going to seed.

Pkt. 5c; oz. 10c; 4-oz. 15c; lb. 40c

BLOOMSDALE SAVOY LEAVED.—Very early; of upright growth; leaves pointed; plant in the autumn for spring use; grows quickly. Pkt. 5c; oz. 10c; 4-oz. 15c; lb. 40c

\$1.25 for \$1.00

You can select \$1.25 worth of seeds in packets and ounces for \$1.00. See inside front cover.



EARLY GIANT THICK LEAVED

When it comes to cheap prices, we are not in it (we don't want to be); but when you want "quality," something better, that's where we win out. Try us.

SALSIFY—Oyster Plant

The roots are long and tapering; when cooked has a flavor like oysters. If more people knew how many fine dishes are made out of Salsify Roots it would be much more extensively planted. Same culture as carrots. Roots good all winter.

Mammoth Sandwich Island.—The best variety of Salsify, being very smooth, of fine quality, pure white and extra large size.

Pkt. 5c; oz. 15c; 4-oz. 50c; lb. \$1.50

SUNFLOWER

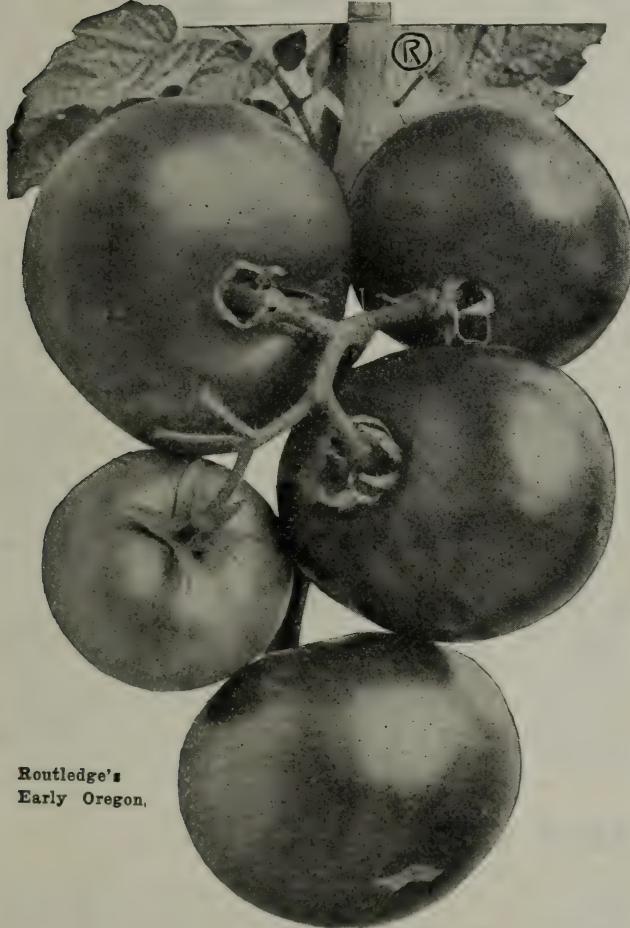
Every farmer and poultry raiser should raise sunflowers, for the seed is very fattening and contains a high percentage of protein, an excellent egg food. **Mammoth Russian.**—The largest and best for seed. Large pkt. 5c; 4-oz. 10c; lb. 35c, postpaid

BIG CROPS are produced by using "Beaver Brand" Fertilizer.

See pg. 41.

TOMATO

Tomato Plants in any quantity. See Vegetable Plant list, pg. 16.



Routledge's
Early Oregon.

SPARKS EARLIANA.—The earliest tall variety, forming ripe fruit much earlier than any other variety. The fruit is large, smooth, of a bright scarlet color and of fine quality. Very valuable for early market use. Similar, but far superior, to Atlantic Prize. Pkt. 10c; oz. 30c; 4-oz. 90c

Matchless.—Tall-growing, prolific, large fruit, smooth and uniform; color bright scarlet. For canning and general main crop market there is no better tomato grown. Pkt. 5c; oz. 30c; 4-oz. \$1.00

Dwarf Champion.—Forms a strong, erect, bushy plant 2 feet high; often sold as Tree Tomato. Fruit smooth, medium sized, solid and of good flavor. Pkt. 5c; oz. 30c; 4-oz. \$1.00

Red or Yellow Cherry.—Fruit small, about five-eighths of an inch in diameter; perfectly round and smooth; fine for pickles and preserves. Pkt. 5c; oz. 25c

Increase the yield and quality of your Tomatoes by using a good plant food. See pgs. 41 and 101.

Comet

The Best Tomato for Greenhouse Forcing.—A recent variety, matchless in form and color. Beautiful, smooth, round fruit in great abundance. Color a rich scarlet-red. Sets very freely in bunches. Equally good for outdoor culture as for forcing.

Pkt. 20c; 1/4-oz. 60c; oz. \$2.00

Chalk's Early Jewel

The largest, smoothest and finest flavored, extra early bright red tomato, about 10 days later than Spark's Earliana. It is a heavier cropper, with tomatoes of larger size and sweeter flavor, produced throughout the season. The plants are of bushy, compact growth, heavily loaded with fruit. The tomatoes are of good size, just right for market; are very solid and deep through, being almost round; color bright scarlet, ripening to the stem without cracks or green core. The flesh is thick, solid, of fine flavor, with few seeds. The skin is strong enough to make it a good shipping variety.

Pkt. 10c; oz. 35c; 4-oz. \$1.00

Routledge's Early Oregon

The earliest of all the good varieties, very hardy and succeeding everywhere. The Early Michigan, Fordhook and Atlantic Prize are good sorts, but the Early Oregon is superior to these in shapeliness, color, size, smoothness, solidity and flavor, as well as being earlier. When we say the earliest tomato we of course mean the earliest good tomato. There are several sorts a very little earlier, but they are gnarled, ridged, small, tasteless and unworthy the name of tomato and unfit for use. Those wishing to have the earliest good tomato should raise our Early Oregon. Try it; you will not be disappointed.

Pkt. 10c; 1/2-oz. 20c; oz. 35c; 4-oz. \$1.00

STONE.—Grown very extensively for a main crop by market gardeners; very large, smooth and solid, of a bright red color and a heavy yielder; of excellent quality and not subject to rot.

Pkt. 5c; oz. 25c; 4-oz. 75c

Ponderosa.—A purple-fruited tomato of largest size; vine vigorous and very productive; fruit very solid, fairly smooth and considered of very good quality, especially by those who prefer a tomato quite free from acid.

Pkt. 10c; oz. 40c; 4-oz. \$1.00

Yellow Husk or Ground Cherry.—Used for preserves and eating from the hand. The seed we offer is that of the true Yellow Ground Cherry, not the purple-fruited sort, which is scarcely edible.

Pkt. 5c; oz. 30c

Yellow or Red Pear.—Used for preserves and to make "tomato figs." Fruit distinctly pear-shaped and of excellent flavor.

Pkt. 5c; oz. 25c

TOBACCO

Culture practically same as cabbage.

Havana or Connecticut Seed Leaf.—Both good, hardy varieties for general planting here. Pkt. 5c; oz. 25c

TURNIP

Extra Early Purple Top Milan.—This variety is ready for the table sooner after planting than any other; flesh white, firm and delicate. Pkt. 5c; oz. 10c; 4-oz. 25c; lb. 85c

White Milan.—Same as above, but pure white; sweet and tender. Pkt. 5c; oz. 10c; 4-oz. 35c; lb. 85c

EARLY PURPLE TOP (Strap Leaved).—One of the best and most universally grown; flesh firm, but very tender and sweet; of quick growth, it is soon ready for the table and keeps well. Pkt. 5c; oz. 10c; 2-oz. 15c; 4-oz. 20c; lb. 60c

EARLY WHITE FLAT DUTCH.—A leading white-fleshed variety and one of the best, either for the family, market garden or field crop; it is medium size and produces a large crop; the flesh is firm, but tender and of a superior rich, buttery flavor; a good keeper. Pkt. 5c; oz. 10c; 2-oz. 15c; 4-oz. 20c; lb. 60c

ORANGE JELLY, OR GOLDEN BALL.—Undoubtedly one of the most delicate and sweetest yellow fleshed turnips; not large in size, but firm, crisp and most excellent flavor; keeps well and is superior as a table variety.

Pkt. 5c; oz. 10c; 2-oz. 15c; 4-oz. 20c; lb. 60c

Amber, or Yellow Globe.—One of the best yellow-fleshed varieties; skin clear yellow; is of good size and fine flavor.

Pkt. 5c; oz. 10c; 2-oz. 15c; 4-oz. 20c; lb. 60c

EARLY SNOWBALL.—A superior table variety, meltingly tender, with snow-white flesh. This delicious turnip is one of the best varieties ever offered. Snowball matures six weeks after sowing, the bulb being small, smooth and perfectly globular. The flesh sparkling white, fine-grained, sweet and tender, with smooth, white, delicate, thin skin. We strongly recommend Snowball to all who want the best early table turnip.

Pkt. 5c, oz. 10c, 2 oz. 15c, 4 oz. 25c, lb. 75c

WHITE EGG.—Is perfectly smooth, of a pure clear white; a very choice kind for table use; of excellent flavor, sweet and mild; pulls clean from ground; thin, snow-white skin.

Pkt. 5c, oz. 10c, 2 oz. 15c, 4 oz. 20c, lb. 65c



Early Purple Strap Leaf.

COWHORN (Long White).—Slightly crooked; pure white, except a little shade of green at the top; grows half out of the ground and is of very rapid growth; is delicate and well-flavored; has proved itself one of the best stock turnips ever introduced in Oregon.

Pkt. 5c, oz. 10c, 2 oz. 15c, 4 oz. 25c, lb. 75c

PURPLE TOP WHITE GLOBE—A very heavy cropping, globe-shaped variety, with white skin and flesh; excellent flavor and much in favor with the market gardeners and dairymen.

Pkt. 5c, oz. 10c, 2 oz. 15c, 4 oz. 20c, lb. 60c

YELLOW ABERDEEN.—Round, medium size; light yellow; produces a large crop; is hardy and keeps well; flesh very firm, but tender and sweet; a great favorite with the dairymen.

Pkt. 5c, oz. 10c, 2 oz. 15c, 4 oz. 20c, lb. 60c

RUTABAGA, OR SWEDE TURNIPS

For feeding stock in fall and winter there is nothing superior to turnips and rutabagas, as they are much liked by all kinds of stock, and serve to keep them in good condition. We cannot too earnestly recommend farmers to increase their sowings largely, for we are sure the crop will prove remunerative.

IMPROVED AMERICAN PURPLE TOP.—The leading and most popular variety, being very distinct in type, attaining a wonderfully large size; immense yielder; the flesh is very firm, superior in every way; valuable alike for all purposes.

Pkt. 5c, oz. 10c, 2 oz. 15c, 4 oz. 20c, lb. 60c

WHITE SWEET GERMAN.—This variety is most excellent either for table or stock; it grows to a very large size; flesh white, solid, of a firm texture, sweet and rich; an excellent keeper.

Pkt. 5c, oz. 10c, 2 oz. 15c, 4 oz. 20c, lb. 60c

HERB SEEDS

POT, SWEET AND MEDICINAL

Herbs in general delight in rich, mellow soil. Those marked with a (*) are perennial. We offer some of the most useful and popular. They should be cut on a dry day, just before they come into full bloom, and tied in bunches and hung up or spread thinly on a floor where they can dry quickly.

ALL THE FOLLOWING HERBS, 5c PER PACKET

	Oz.	Oz.	
Anise.—Seeds aromatic; used medicinally.....	20c	*Hysop	20c
*Balm.—For culinary purposes.....	25c	*Lavender.—For fragrance	25c
Basil.—Sweet; for flavoring soups.....	20c	*Marjoram.—Sweet; for flavoring.....	25c
Borage.—For flavoring; also bee pasture.....	15c	Pennyroyal	Pkt. 10c; 75c
Caraway.—For flavoring	15c	*Rosemary.—Aromatic oil	35c
*Catnip (Cat Mint).—Mild nervine for infants	40c	Summer Savory.—For flavoring	15c
Coriander.—Used for flavoring.....	10c	*Sage.—For tea flavoring and dressings.....	20c
Dill.—Used medicinally and for pickles.....	10c	Saffron.—For dyeing and powder.....	20c
Dandelion	Pkt. 10c; 75c	Tarragon.—For seasoning	Pkt. 10c
*Fennel.—Flavor of celery, but more delicate.....	10c	*Thyme (Broad-Leaved).—For soup and flavoring.....	45c
*Horehound.—Bitter; for tonic.....	30c	*Wormwood.—Medicinal use	25c

HERB SEEDS FOR FLAVORING—POSTPAID

Anise.—Anise seed for flavoring $\frac{1}{4}$ -lb. 15c; lb. 45c

Caraway.—For the use of bakers and confectioners. $\frac{1}{4}$ -lb. 15c; lb. 35c

Coriander.—Coriander seed for flavoring. $\frac{1}{2}$ -lb. 20c; lb. 35c

Dill Seed.—Used to flavor soups, stews and pickles. $\frac{1}{2}$ -lb. 25c; lb. 45c

Mustard.—White or yellow. Oz. 10c; $\frac{1}{4}$ -lb. 15c; lb. 35c

Poppy Seed.—Used for flavoring. $\frac{1}{2}$ -lb. 25c; lb. 35c



Fertilizer for Garden, Farm and Field Crops "Beaver Brand" Animal Fertilizer

Properly prepared and carefully mixed and put up under the new state fertilizer law with guaranteed analysis. Send for our FERTILIZER BOOKLET, giving full information, tables, tests, amount per acre and reasons why "BEAVER BRAND" is the best and cheapest fertilizer on the market, quality and price considered. Low prices by the ton.

ROSELAWN.—Prepared especially for use on lawns, also excellent for rose bushes and home gardens. A quick acting yet lasting fertilizer; high grade, properly prepared, ground fine and should be scattered broadcast on the lawn at the rate of 100 lbs. to the average city lot, when making a new lawn or about half the amount as a top dressing in the spring, using the balance for bushes and garden. Put up in 50 and 100-lb. sacks, also in 10-lb. patent cover air-tight cans that can be carried home on a street car. Prices: 10-lb. pails 50c; 50-lb. sacks \$1.75; 100-lb. sacks \$3.00

For other fertilizers see pg. 101.

GENERAL GARDEN FERTILIZER—"D."—Practically all garden truck requires a good percentage of phosphoric acid and potash. "BEAVER BRAND D" Animal Fertilizer is prepared especially for gardens and the following formulae developed after much investigation. In comparing prices, note carefully the very high Guaranteed Analysis: Ammonia, 4 per cent; phosphoric acid, 9.29 per cent; potash, 6 per cent.

Prices: 50-lb. sacks \$1.50; 100-lb. sacks \$2.50; 500 lbs. \$11.50.

POTATOES AND ROOTS—"E."—These products require a good percentage of phosphoric acid and potash, with a much less percentage of nitrogen. Therefore use BEAVER BRAND "E" Fertilizer. Guaranteed analysis: Ammonia, 3.04 per cent; phosphoric acid, 11.05 per cent; potash, 12 per cent.

Prices: 50-lb. sacks \$1.50; 100-lb. sacks \$2.50; 500 lbs. \$11.00. Low price by the ton.

VINES AND BUSHES—"A."—To produce a good, healthy body and both quality and quantity in fruit, all vines and bushes should be well fertilized. They draw phosphoric acid very heavily from the soil. We recommend BEAVER BRAND "A" Fertilizer. Guaranteed analysis: Ammonia, 3 per cent; phosphoric acid, 12.70 per cent; potash, 3 per cent.

Prices: 50-lb. sacks \$1.50; 100-lb. sacks \$2.50; 500 lbs. \$11.00.

FRUITS AND BERRIES—"B" or "C."—Fruits and berries must have a good supply of phosphoric acid and potash, particularly phosphoric acid, to insure the best results both as to quality and quantity. If you cannot fertilize all of your land, at least make a small trial. On the above crops which are doing fairly well, we recommend BEAVER BRAND "B" Fertilizer, to maintain the fertility and increase quality and quantity. Where the crops have been very poor, use BEAVER BRAND "C" Fertilizer, to recover fertility.

Guaranteed Analysis. "B" Pct. "C" Pct.

Ammonia	2	3
Phosphoric Acid	12.14	11.22
Potash	3	4.50

Prices: 50-lb. sacks \$1.25; 100-lb. sacks \$2.25; 500 lbs. \$10.50. NOTE.—"C" is 10c per 100 higher.

SPECIAL FERTILIZER FOR HOPS—"A" or "E"—

We furnish two brands of Fertilizer for Hops, one with a very high percentage of potash and the other with a very small percentage of potash, phosphoric acid being the same in both. Hops are known to be great feeders on phosphoric acid from the land. The average hop crop removes seventy-five pounds per acre from the soil. This has to be replaced. For hops on clay soil and soil containing considerable potash, we recommend BEAVER BRAND "A" SPECIAL Hop Fertilizer, but for hops on all other lands we recommend BEAVER BRAND "E" Fertilizer.

Guaranteed Analysis. "A" Special, Pct. "E", Pct.

Ammonia	4	3.04
Phosphoric Acid	11.05	11.05
Potash	2	12

Prices, "A" Special: 50-lb. sacks \$1.25; 100-lb. sacks \$2.25; 500 lbs. \$10.00. Price of "E": 25c per 100 more. Low prices by the ton.

SPECIAL ONION FERTILIZER—"E."—Onions are great users of phosphoric acid and potash, using more potash per acre than the average hop crop and as much as a potato crop. On account of intensive farming of onions, the supply of phosphoric acid and potash is very quickly decreased. To hold up your quantity and quality of crops you must feed them more plant food. We recommend

BEAVER BRAND "E" Fertilizer. Guaranteed analysis: Ammonia, 3.04 per cent; phosphoric acid, 10.05 per cent; potash, 12 per cent.

Prices: 50-lb. sacks \$1.50; 100-lb. sacks \$2.50; 500 lbs. \$11.00. Low price by the ton.

TANKAGE.—**"Beaver Brand"** Dried and Ground.—This is a very highly concentrated tankage, analyzing 10 per cent ammonia and around 20 per cent calcium phosphate. Low price by the ton.

Prices: 100-lb. sacks \$2.50; 500 lbs. \$12.00

DRIED GROUND BLOOD—"Beaver Brand."****—This is an A No. 1 product and contains a very low percentage of moisture and highest possible percentage of nitrogenous material. Guaranteed analysis, ammonia 16½ per cent.

Prices: Lb. 10c; 5 lbs. 35c; 10-lb. sacks 60c; 50-lb. sacks \$2.20; 100-lb. sacks \$3.75.

Most of the above fertilizers should be used at the rate of 500 lbs. or more per acre. It will pay, and pay well. Send for our fertilizer booklet. SEE OTHER FERTILIZERS, pg. 101.



ABOUT PRICES PLEASE READ FOLLOWING PARAGRAPH ABOUT PRICES

Only one grade priced, the best, choice, clean seed. Write for prices in quantity.

Prices on Grass and Clover Seeds per single pound include postage. Prices per ten, fifty and one hundred pounds are by express or freight, purchaser paying transportation charges. They are subject to market changes.

YOU WILL ALWAYS GET YOUR MONEY'S WORTH.

Prices on Grass and Field Seeds change occasionally, therefore we cannot print prices good for any length of time. When ready to buy, write us for special prices, stating quantity, or order what you want at catalog prices, and we guarantee that we will give you full value for the money sent, whether the price at the time you order be higher or lower. In other words, we will always ship seed to cover the full amount of money sent to us.

GRASS SEEDS

KENTUCKY BLUE (*Poa Pratensis*).—Remarkable for its ability to adapt itself to a great variety of soils, succeeding on an average dry soil as well as on a moist meadow. An abundant yielder and presents a handsome green appearance early in the spring, thus making it of great value for lawn mixtures. Our extra fancy grade for lawns is unequalled.

Extra fancy, 10 lbs. \$3.00; per lb. postpaid, 40c
Fancy, 10 lbs. \$2.50; per lb. postpaid, 35c

ORCHARD (*Dactylis Glomerata*).—Of the greatest value in permanent pasture mixtures; thrives best in moist, shady places, but will withstand drought exceedingly well. Valued for hay crop, as it is very nutritious if cut early. Its inclination to grow in tufts necessitates other grasses being sown with it.

10 lbs. \$2.25, 100 lbs. \$20.00; per lb. postpaid, 35c

ITALIAN RYE (*Lolium Italicum*).—A quick-growing grass, attaining a height of $2\frac{1}{2}$ to 4 feet; very desirable for meadows or permanent pastures; thrives best on soils that are slightly moist, and will even stand considerable overflow; grows easily and bears an abundance of foliage that makes the best and sweetest hay imaginable.

10 lbs. \$1.25, 100 lbs. \$9.00; per lb. postpaid, 25c

BROMUS INERMIS (*Russia Forage Grass—Awnless Brome Grass*).—This *Bromus*, on account of its strong perennial character, and its unusual drought-resisting powers, is the best grass we have for the semi-arid regions of the Northwest. It grows luxuriantly, is freely eaten in either the dry or green state by cattle, and yields enormously, making the best of hay for horses or cattle. It is perennial, and yields from 4 to 6 tons to the acre.

10 lbs. \$1.60, 100 lbs. \$15.00; per lb. postpaid, 30c

RED TOP (*Agrostis Vulgaris*).—Perennial, 1 to 2 feet; July. Of great value for mixing with lawn, hay or permanent pasture grasses; will succeed in nearly any soil, but thrives best in a rich, moist soil; makes a fine bottom growth, rendering it invaluable to be sown with grasses, such as timothy and orchard; should be fed close if for pasture, as it is not relished after it grows up to seed.

Choice Seed, not hulled, 10 lbs. \$1.75, 100 lbs. \$15.00; per lb. postpaid, 30c.

Fancy Hulled Seed, 10 lbs. \$2.50; per lb. postpaid, 40c.

SWEET VERNAL, TRUE PERENNIAL (*Anthoxanthum Odoratum*).—Per lb., postpaid, \$1.00

TIMOTHY, OR HERD'S (*Phleum Pratense*).—Perennial; 2 to 3 feet; June and July. As a hay crop, timothy is unsurpassed by any other grass. Thrives on ordinary soil, but succeeds best in a moist loam. Remarkably nutritious, especially when ripe, but as it is also hard and coarse at that stage, it is better to cut it when in blossom or soon after flowering. Beneficial to sow timothy with, red top and red clover, as they produce more of a bottom growth. Not suited to sandy or light or gravelly soils.

10 lbs. \$1.25, 100 lbs. \$10.00; per lb. postpaid, 25c

ENGLISH RYE GRASS (*Lolium Perenne*).—Perennial; 15 to 24 inches; June. A valuable variety; used for lawn, permanent pasture and mowing mixtures; forms a very compact sward, and if cut when in blossom is very nutritious; very vigorous in most situations.

10 lbs. \$1.25, 100 lbs. \$9.00; per lb. postpaid, 25c

MEADOW FESCUE (*Festuca Pratensis*).—Perennial, 18 to 24 inches; June and July; one of the most valuable grasses, succeeding in any good soil, though preferring moist places; very nutritious; largely used for a permanent pasture.

Per lb., postpaid, 40c

RHODE ISLAND BENT (*Agrostis Canina*).—Forms a very fine turf even on light soils; desirable for lawns, as it forms a very close sward.

10 lbs. \$3.50; per lb. postpaid, 45c

CREEPING BENT (*Agrostis Stolonifera*).—Perennial, A grass desirable for either lawns or permanent pasture on account of the fine, firm and enduring turf it produces; specially adapted to moist situations.

10 lbs. \$3.50; per lb. postpaid, 45c

HARD FESCUE (*Festuca Duriscula*).—Thrives well in dry soils; comes early and withstands long droughts; very nutritious as a hay crop and valuable for permanent pasture.

10 lbs. \$2.25; per lb. postpaid, 35c

SHEEP'S FESCUE (*Festuca Ovina*).—Short and compact; especially adapted for dry, upland pastures.

10 lbs. \$2.25; per lb. postpaid, 35c

SWEET VERNAL ANNUAL (*Anthoxanthum Odoratum Fuelli*).—Valued chiefly for its odor.

10 lbs. \$3.00; per lb. postpaid, 35c

MESQUITE (*Holcus Lanatus*).—It is usually sown on virgin soil, without cultivation, after the ground has been burned over; sow about 15 pounds seed to the acre.

10 lbs. \$1.25, 100 lbs. \$10.00; per lb. postpaid, 25c

Note.—You can buy cheaper grass seeds from your local dealer—we have only the BEST RECLEANED HEAVY SEEDS.

FIELD AND MISCELLANEOUS FARM SEEDS

Single pound prices include postage. If ordering by freight or express, deduct 10c per pound. Ten, fifty and one hundred pound prices subject to market changes. Seed to cover amount remitted always sent unless otherwise ordered. See notes page 42. Write for prices on larger quantities when ready to buy.



Artichoke Tubers

ARTICHOKEs

Planted and cultivated same as potatoes. Of great value for feeding stock. They are the best hog feed known. They are remarkable for their fattening properties, great productivity, over 1000 bushels having been raised on 1 acre. Easier to grow than potatoes. They need not be dug. If hogs are turned in on

them they will help themselves by rooting. One acre will keep from twenty to thirty hogs in fine condition from October until April, except when the ground is frozen too hard for them to root. They are also said to be a preventive of cholera and other hog diseases, and they are also highly recommended for milk cows, increasing the yield of milk, and at the same time improving their condition. Plant 10 bushels per acre early in the spring.

White French, most profitable variety, per lb., postpaid, 15c. By freight or express, peck, 50c; 1/2-bu. 75c; bu. \$1.25; 5-bu. \$5.50; 10-bu. \$10.00.

BUCKWHEAT

SILVER HULL.—A very good and popular variety; grain is of a light gray color; has a thin husk; matures early, and yields heavily; a good milling variety.

10 lbs. 60c, 100 lbs. \$4.50; per lb. postpaid, 20c

JAPANESE.—Good yielder, ripens early; excellent for bee pasture.
10 lbs. 75c, 100 lbs. \$5.00; per lb. postpaid, 20c

BARLEY

BEARDLESS.—The earliest barley known. The straw is about the height of the common barley, but better, and will stand up on any land; with good season, land has produced 80 bushels per acre. Sow as early as you can; frost does not hurt it. Many farmers will not grow barley on account of the long, harsh beards, which are so disagreeable in threshing, although it is a profitable crop. This is beardless, and as easy to grow and handle as oats. It is becoming more popular each season.

Peck, 50c, bu. \$1.50; per lb. postpaid, 15c

WHITE HULLESS (Bald Barley).—A grand barley for stock feeding. Grain plump, heavy, and when threshed is hulless like wheat; a heavy cropper. When grown and cut for hay it produces a magnificent crop, which is very rich and almost equal to a grain feed. Much relished by horses and stock of all kinds. An excellent hog feed. Culture same as common barley.

Peck 60c, bu. \$1.75; per lb. postpaid, 20c

COMMON.—We always aim to have a nice, clean stock of good seed barley on hand at all times.
Per lb. postpaid, 15c; bu. \$1.25

Alpha, Ore., Jan. 15, 1912.

Gentlemen: Enclosed find postal money order for seeds this year.

Your seeds gave excellent satisfaction last year, so am favoring you with another order.

Yours truly,

L. H. BROOKS.

COW KALE—Thousand-Headed Kale

Recommended by agricultural colleges, granges and dairymen who have tested it as one of the most valuable forage plants for this Coast. It grows rapidly and produces a mass of thick, curly green leaves, rich and succulent, which are eagerly eaten by sheep, cattle and horses. Especially recommended for green feed during the dry summer months. Sow in drills two to three feet apart, four pounds to the acre, and thin out as needed. Makes the most rapid growth if sown in the early spring, but can be sown in summer and fall for winter feed. Will stand light freezing. Stalks can be cut off, or the larger lower leaves broken off, leaving the tops to grow.

Pkt. 5c; oz. 10c; 1/4-lb. 20c; lb., postpaid, 50c



Thousand-Headed Kale

This cut is from photo, and gives you a good idea of the size and plant when well grown.

CHEAT SEED

Cheat seed yields a good crop of hay, especially on low or moist soil, and will stand considerable overflow without harm. It makes an excellent hay for cows or horses, but should be cut before it gets too ripe. Sow in the fall or early spring, same as oats and about 100 pounds per acre.

10 lbs. 50c; 100 lbs. \$2.50. Per lb., postpaid, 15c

COW PEAS

These so-called "Cow-Peas" are really a small bean of strong running growth, with a large and abundant, glossy, dark green foliage. Desirable for enriching the soil and for furnishing a large crop of nutritious forage, although we believe field peas are better for most locations here. The vines may be cut either for feeding green or can be cured like clover for winter use. Sow two bushels per acre.

10 lbs. \$1.00; 100 lbs. market price. Per lb., postpaid, 25c.

Riffe, Wash., Feb. 12, 1912.

Dear Sirs: I have never been so well pleased with seeds and plants as I am with the ones you sent me last year, and although my order was small, I got more seeds than usual for the amount of money sent, and such good seeds.

Yours truly,

MRS. ROSE COLEMAN.

Every farmer needs a broadcast seed sower—the "Cahoon" is best. See page 110.

Farm and Field Seeds—Continued

FIELD CORN

If you want to raise some good Field Corn, plant our Northwestern grown Seed Corn. The strains we are offering you are acclimated and especially adapted to our short, cool summers. Eastern and Southern grown field corn seed is all right for green fodder, but of little value on this Coast, if you want to raise matured, dry ears.

ROUTLEDGE PRIDE OF THE WEST—Yellow Dent

(Sample Ears on Display at Our Store.)

This new Field Corn is a grand success in Oregon. Our grower, C. E. Holtgrieve, has been raising this variety for five years, and by selecting the earliest ripening and best select ears, now has a strain that is a revelation to many people who have thought Oregon and Washington could not raise profitable field corn.

1911 was the first season we sold this seed, and reports from all sources are most favorable. One customer, a new settler in Oregon, wrote as follows: "My neighbors, when they saw me planting your Pride of the West Corn, said that it was no use; it wouldn't mature; but last week (September 10) I began harvesting my crop, and am glad to write that it produced a good crop of handsome, ripe ears of good size and quality. You will get many orders from this section next season."

Routledge Pride of the West field corn is an early maturing variety, producing stalks from 8 to 10 feet high, and large ears, 8 to 9 inches long. Cob covered with 14 to 16 rows of deep, yellow kernels. It is a heavy yielder. Our grower reports having harvested this year 82 bushels per acre—going some, eh? Plant some of this corn this season; you will be pleased with results, we are sure.

Stock limited, so order early. Large Pkt. 10c; lb. 20c, postpaid. By freight or express, lb. 10c; 10 lbs. 85c; 100 lbs. \$7.50.

Lone Rock, Ore., Jan. 16, 1912.

Routledge Seed & Floral Co.

Gentlemen: I bought some corn, Routledge Pride of the West, and was sure pleased with results. I am going to plant more this year.

Yours truly,
JAY CRENSHAW.

OREGON WHITE DENT

Similar to above, except that seed is white; a good cropper and preferred by some. Same price as above. Acclimated Oregon-grown.

HOLTGRIEVE SPECIAL

(Sample Ears on Display at Our Store.)

This is a Whitecap Yellow Dent Corn, producing handsome ears 10 to 11 inches long, covered with 16 straight rows of fine quality, deep golden corn, showing a white or light yellow cap. It makes a fine looking ear, and matures up well. This corn evidently contains a strain of the flint, for the kernels are harder, more flinty and not so deep as Pride of the West, and matures a little earlier.

Large Pkt. 10c, lb. postpaid 20c; by express or freight, lb. 10c, 10 lbs. 85c; 100 lbs. \$7.50.

MINNESOTA KING and PRIDE OF NORTH

We can supply these two varieties if wanted, but we recommend our other varieties. Price lb. 20c postpaid, by freight or express, lb. 10c, 10 lbs. 60c.

MONEY MAKING

SEED OATS

OF SPECIAL MERIT

Routledge Prize Oats

This wonderful new oat, introduced by us in 1908, has proved in growing contests all we claimed for it. Routledge Prize certainly is a prize oat, and a real prize-winner at the county fairs wherever it has been shown. This grand oat belongs to the tree or branching class, and is a vigorous, healthy grower of strong stooling qualities and need not be seeded as heavily as most oats (1½ to 2 bushels per acre is ample.)

This is the heaviest yielding oat introduced to date. From several hundred samples we sent out, spring of 1908, the lightest yield reported was over 100 bushels per acre, and from that up to 200 and 300 bushels—simply enormous.

Routledge Prize Oat is a very early, drought-resistant variety. Grain of good size, plump and heavy. White seeded variety.

We advise early orders.

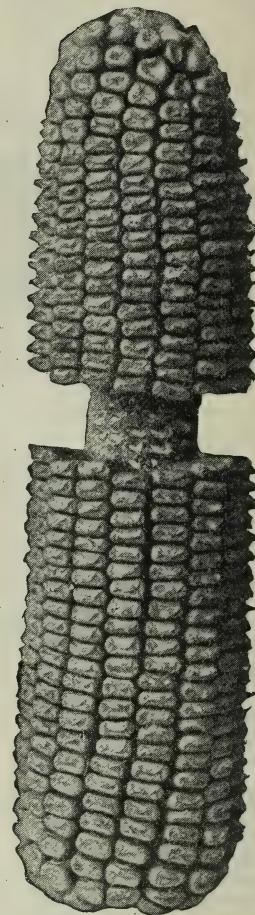
Prices: By mail, postpaid, 1 lb. 25c; 4 lbs. 75c; By freight or express, peck 60c; ½-bushel \$1.00; 1 bushel \$1.60; 3 bushels \$4.50.

NEW GIANT—Side Oat

The earliest, most prolific and surest cropper. Wherever this oat is seen it speedily comes into great favor. For a spring oat for seeding in March and April it is unquestionably the best; matures early; is free from rust; makes a vigorous growth, and produces a remarkably good yield of clean, bright, heavy grain. Price: Per lb. 20c, or 4 lbs. for 60c, postpaid. By express or freight, per peck 50c; per bu. \$1.50; 3 bu. \$3.50.

WHITE, GRAY OR BLACK SEED OATS

We always aim to have a selected, recleaned stock of good White, Black or Gray Seed Oats. Can sell them at about market price for No. 1 seed. When ready to buy, write us for prices, stating quantity wanted, or order at \$1.00 per bu., 3 bu. \$2.50, and you will get good value.



Routledge Pride of the West Field Corn

FIELD PEAS

Field Peas are a very profitable crop and are grown here very extensively.

WHITE CANADIAN.—A leading and most popular kind; seed almost white; a heavy cropper. 10 lbs. 70c; 100 lbs. \$5.50. Per lb., postpaid, 20c

BLUE PRUSSIAN.—Very much like the above except in color; used extensively for soup pea. 10 lbs. 70c. Per lb., postpaid, 20c

KAFFIR CORN

An excellent fodder plant. It does best sown in drills three feet apart. 10 lbs. 60c; 100 lbs. \$4.00. Per lb., postpaid, 25c

MILLETS

Sow in April, May or June, 12 pounds for seed or 20 pounds for hay per acre.

Early Fortune

This variety seems to do extra well here; try it. Heads large and loose, and seed is amber red and three times as large as the German.

10 lbs. 75c; 100 lbs. \$8.50; per lb., postpaid, 20c

GERMAN.—An improved variety, yielding a larger crop of seed than the common millet. It is also taller than the common, and yields a heavier crop of hay. 10 lbs. 65c; 100 lbs. \$5.50; per lb., postpaid, 20c

HUNGARIAN.—A dwarf annual millet. It is finer than the common or German millets, but produces a closer stand, and yields almost as much per acre as the taller varieties; superior for hay.

10 lbs. 70c; 100 lbs. \$5.50; per lb., postpaid, 20c

For price on Millet for feed, see Poultry Foods.

POTATOES FOR SEED

Don't overlook the valuable and up-to-date Seed Potatoes we offer on pages 34-35.

RYE FOR SEED

Per lb., postpaid, 15c; peck 50c; bu. \$1.50. For quantity prices write when wanted.

For Farm and Garden Tools, Seeders, etc., see pages 107 to 113.



Millet

SEED WHEAT

When ready to buy, write for prices or order amount you want at the rate of \$2.50 per 100 lbs., and we will send you full value in the best seed obtainable in the Portland market.

RAPE, DWARF ESSEX

We offer you true, pure seed. One of the best forage plants, on account of the large amount of green feed it will produce at a season of the year when everything else is dried up. It has yielded ten tons of green forage per acre, and has twice the feeding value of green clover. Sheep, swine, cattle and poultry eat it readily. Rape will do well on almost any soil. Prepare the ground as for turnips, and sow any time from May till September; or plant it with grain. Sow, per acre, four pounds, in drills; or, if broadcast, eight pounds. Lb. 15c, 10 lbs. \$1.25, 100 lbs. \$10.00; per lb, postpaid, 25c

SPELTZ

It will grow well and produce immense crops on poor soil. Dry weather seems to have no bad effect on it. After the grain is threshed out, the straw makes good hay. The grain has a hull, something like barley. Sow in the spring, the same as wheat, at the rate of two bushels per acre. Cut when the grain is past the middle stage of milk, when it will make splendid grain and lots of rich straw hay. Thresh like wheat, only not so closely. Can be fed whole, rolled like barley, or ground.

Lb. 10c, peck 50c, bu. \$1.50 per lb, postpaid, 20c

VETCHES

OREGON VETCH (Vicia Sativa).—Oregon's greatest forage plant. Often called Fall Vetch. This is a species of the pea, and is grown very extensively in Western Oregon and Washington, especially in the Willamette Valley and on the Oregon coast. It furnishes an abundance of excellent feed, either green or dried. The seed should be mixed with an equal weight of some variety of wheat, oats, or rye having a stiff straw, and the mixture sown at the rate of two bushels per acre. Sow in the fall or early spring.

10 lbs. 50c, 100 lbs. \$4.00; per lb, postpaid, 20c

HAIRY SAND OR WINTER (Vicia Villosa).—This variety thrives on poor arid, sandy soils. It is sown in the fall or spring, mixed with rye, which serves to support the plants. Sow 20 pounds per acre.

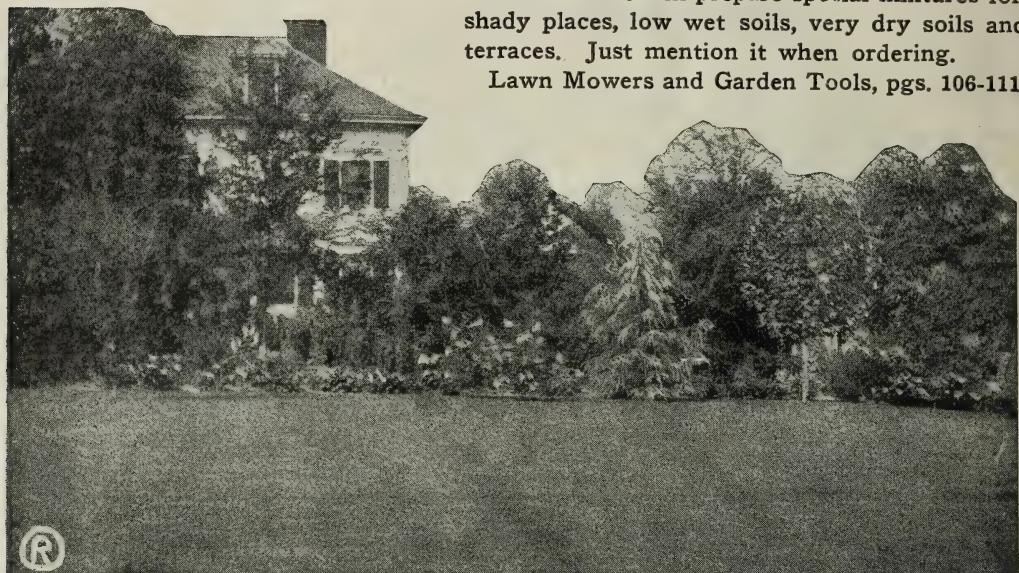
Lb. 20c, 10 lbs. \$1.80; per lb, postpaid, 30c

Single pound prices on above Seed include postage. In ordering by freight, deduct 10c per lb. Ten, fifty and one hundred pound prices subject to change. See notes page 42. For amount of seed to sow per acre see table inside back cover.

Vetches

NOTE.—We will prepare special mixtures for shady places, low wet soils, very dry soils and terraces. Just mention it when ordering.

Lawn Mowers and Garden Tools, pgs. 106-111.



LAWN GRASS SEED

Upon no one thing does so much depend in making beautiful home grounds as upon a good lawn, for without that velvety green carpet, no place, however, lavishly planned or grandly built, looks finished.

The real lover of nature and the beautiful need never be disappointed in his lawn if care is used in the preparation of the soil and selection of his grass seed. Though we offer separately seed of many of the varieties suitable for the lawn, we consider as very erroneous the somewhat prevalent idea that any single variety of grass seed is preferable or equal to a mixture. Many of these varieties, though of great value as components, have characteristics which render them unsuitable for sowing alone. Kentucky Blue Grass, for instance, often recommended to be used alone, has decided merits and will do fairly well alone, but is of greater value when mixed with other grasses.

R. R.'s Evergreen Lawn Grass

To obtain a good Lawn Grass Mixture, it is necessary that the best possible seed of fine grasses be used in the combination, embracing such varieties as are of neat, close growth, extreme hardiness, and adapted to produce a quick, permanent sod. Judicious selection of seed, knowledge of the habits, vigor, quality and hardiness of varieties used in the mixture can only be gained by thorough and practical tests under different climatic and soil conditions. After more than 16 years' experience, we offer our Evergreen Lawn Grass Seed Mixture, composed of a thoroughly balanced combination of various native and foreign fine-leaved, deep-rooting grasses of interweaving habit, that will flourish under varied soil and climatic conditions, and which may be depended upon to produce a beautiful, compact evergreen sod that will resist trampling and hard usage, and at the same time present that handsome, velvety appearance so much desired.

Price, 35c per lb. in any quantity; can't be sold for less; 45c postpaid.

Note.—You better spend a few cents or a dollar extra on the seed you buy and have a fine lawn that you'll be proud of. Sow 1 pound seed to 15 feet square for best results.

FAIR GREEN LAWN GRASS.—For those that are not so particular or for ordinary purposes, this mixture will give satisfaction. It is not a cheap mixture; far from it. We know it is equal to most fancy or special mixtures being offered.

Per lb. 30c, postpaid 40c; 10-lb. to 20-lb. lots 28c lb.

CLOVER SEEDS—ALFALFA

RED (*Trifolium Pratense*).—Hardy, and succeeds well on any good soil.

10 lbs. \$2.25, 100 lbs. \$20.00; per lb. postpaid, 35c

MAMMOTH RED.—Grows very large, and is used almost exclusively for plowing under for manure.

10 lbs. \$2.40; per lb. postpaid, 35c

WHITE (*Trifolium Repens*).—Used largely in lawns and permanent pastures; accommodates itself to a great variety of soils. Fancy clean seed is very scarce and high; beware of low priced seed this season.

Choice Seed, 10 lbs. \$4.00; per lb. postpaid, 50c

Fancy Seed, 10 lbs. \$4.50; per lb. postpaid, 55c

CRIMSON OR SCARLET CLOVER (*Trifolium Incarnatum*).—A thrifty annual. It germinates quickly, grows rapidly and stools abundantly.

10 lbs. \$1.80; per lb. postpaid, 30c

Write for 100-lb. prices when ready to buy.

ALSIKE (*Trifolium Hybridum*).—Valued highly for sowing with other grasses. Excellent for hay and pasture; valuable for bees; resists both drought and excessive moisture.

10 lbs. \$2.25, 100 lbs. \$21.00; per lb. postpaid, 35c

ALFALFA, OR LUCERNE CLOVER (*Medicago Sativa*).—As soon as cut it immediately commences to grow, and on the low lands it is not an unusual thing to harvest five or six crops of hay from the same field in one season without irrigation, and the same result is obtained on high, dry lands where irrigation is resorted to. It will not succeed on hard, clayey soils.

10 lbs. \$2.00, 100 lbs. \$18.00; per lb. postpaid, 35c

DRY LAND ALFALFA.—For high, dry, hot land, where irrigation is impossible.

10 lbs. \$2.00, 100 lbs. \$19.00; per lb. postpaid, 35c

Single pound prices on above Seed include postage. In ordering by freight, deduct 10c per lb. Ten, fifty and one hundred pound prices subject to market changes. See notes top pg. 42. For amount of seed to sow per acre, see table inside back cover.



FLOWER SEEDS

Our flower seeds are grown by specialists and are unsurpassed. The following list contains a general assortment of the choicest and most popular and easiest grown flowers for conservatory, greenhouse or garden culture.

CULTURAL DIRECTIONS.

Cultural directions are printed on the back of nearly all packets.

Flowers usually succeed best in a sandy loam, made rich with well-rotted manure, which should be made fine and thoroughly mixed with the soil. A soil thus prepared will remain moist and loose, so that flower seeds, which are generally small and delicate, will germinate and grow with vigor.

At any time we will cheerfully supply any information as far as we are able pertaining to gardening or floriculture, and solicit correspondence from our customers.

Annuals grow from seed, flower, mature their seed, and die in one year, or, in other words, the same season.

Half-Hardy Annuals are those which should be started early in the house, conservatory or hotbed, and transplanted to the garden in settled warm weather.

Hardy Annuals are those which can be sown in the open ground.

ACROCLINIUM

Hardy annual, with everlasting flowers; good for cutting; flowers double white, 1 foot; July to October. Pkt. 5c

AGERATUM

Half-hardy annuals, especially well adapted to edge large beds of geraniums, salvia, coleus, or cannae; flower continuously through the summer.

Mexicanum.—Dwarf, blue. Pkt. 5c; $\frac{1}{4}$ -oz. 25c

Album.—Pure white, dwarf. Pkt. 5c

Finest Mixed. Pkt. 5c

Dwarf Little Blue Star.—New; one of the handsomest blue-flowered dwarf edging plants; grows 5 inches high, and is just covered with small, bright blue flowers. Pkt. 15c

AGROSTEMMA

Coccii-Rosa (*Rose of Heaven*).—Superb free-flowering, hardy annual, rose-colored flowers; fine for cutting; height 1 $\frac{1}{2}$ feet; July to September. Pkt. 5c



Aquilegia, Rose Queen.

Biennials grow from seed, sown from June to August, flower, ripen their seed and die the next year, though some varieties bloom the same season if sown early in gentle heat.

Hardy Biennials will winter in the open ground without protection.

Perennials grow from seed, and continue flowering annually for many years after the first season. Some varieties flower the first season if planted early in gentle heat.

Half-Hardy Biennials require the protection of a cold-frame or coolhouse during winter.

Hardy Perennials can remain in the open ground during winter without protection.

Half-Hardy Perennials require the protection of a coldframe or coolhouse during winter.

Tender or Greenhouse Perennials require window or greenhouse culture, free from frost during winter, and thrive in the garden during the warm months.

ALOYSIA—Lemon Verbena

Citriodora.—A greenhouse shrub, valuable for the fragrance of the foliage; 2 feet. Pkt. 10c

ALYSSUM

One of the most popular hardy annuals, used especially for edging and also valuable for cutting on account of the fragrance of flowers.

Sweet.—Pure white; 6 inches; June to November. Pkt. 5c; oz. 35c

Little Gem.—The dwarfest and best for design bedding; plants very compact and bushy, and grow only 3 inches high. Pkt. 10c; oz. 50c

Saxatile Compactum (Gold Dust).—Hardy perennial; yellow flowers; April to June; height 9 inches. Pkt. 10c; $\frac{1}{4}$ -oz. 20c

AMARANTHUS

Caudatus (*Love-Lies-Bleeding*).—Hardy annual. Ornamental foliage plant; fine for bedding; green foliage with long, drooping crimson racemes; 2 feet. Pkt. 5c

Cruentus (*Prince's Feather*).—Dark red foliage and feathery flowers; 2 feet. Pkt. 5c

Tricolor (*Joseph's Coat*).—Ornamental, for foliage only. Red, yellow and green. Pkt. 25c

ANTIRRHINUM—Snapdragon

Half-hardy perennial and annual. Blooms in July if sown early in the house. One of our finest cut flowers.

Venus.—New, tall, large flowering; delicate pink; excellent for cutting and florists' use. Pkt. 25c

Queen Victoria.—New, tall; very large, pure white; superb. Pkt. 10c; $\frac{1}{4}$ -oz. 50c

Aurora.—New; semi-dwarf; cinnabar scarlet, white throat. Pkt. 15c

Tall Giant, Finest Mixed.—Our seed of this exceptional fine quality comes from a specialist in England, and is without doubt the choicest strain. Pkt. 5c; $\frac{1}{4}$ -oz. 25c

Dwarf, Finest Mixed. Pkt. 5c; $\frac{1}{4}$ -oz. 30c

AQUILEGIA—Columbine

Hardy perennials. Are most elegant plants and invaluable for cut flowers; moist situations; plenty of sun. Used in rockeries. (See cut.)

Benary's Long Spurred.—Superb mixture of all the most desirable shades. Pkt. 15c; $\frac{1}{4}$ -oz. 50c

Rose Queen.—Beautiful rose color, with white center, yellow anthers. New. Pkt. 20c

Single Finest Mixed. Pkt. 5c; $\frac{1}{4}$ -oz. 20c

Double Finest Mixed. Pkt. 5c; $\frac{1}{4}$ -oz. 20c

ARABIS—Rock Cress

Alpina.—Hardy perennial pure white flowers in close head; excellent for edging, rockwork or dry situations; 6 inches; April to June. Pkt. 10c; $\frac{1}{8}$ -oz. 25c

ASPARAGUS

Plumosus Nanus.—A graceful pot plant for either house or conservatory; very finely cut foliage. Pkt. 25c; 100 seeds \$1.00

Sprengeri.—Drooping foliage; adapted for hanging baskets or cutting.

Pkt. 10c; 100 seeds 50c

ASTERS

We take the utmost pains to select seeds from the most perfect flowers only, and wish to assure our patrons that our strains are the superiority of perfection.

IMPROVED GIANT CREGO.

The most beautiful and desirable aster we have ever seen. Very hardy free-flowering and one of the best for general planting. The plant is a strong, healthy grower, and will produce 12 to 15 long stemmed flowers of the most graceful and pleasing style (see cut). With ordinary care you can grow flowers measuring 5 to 6 inches across. We won first prize at Salem State Fair, 1912, with crego asters. Pure White, Shell Pink, Rose Pink, Purple or Mixed. Pkt. 10c; $\frac{1}{8}$ -oz. 75c

NEW GIANT COMET.

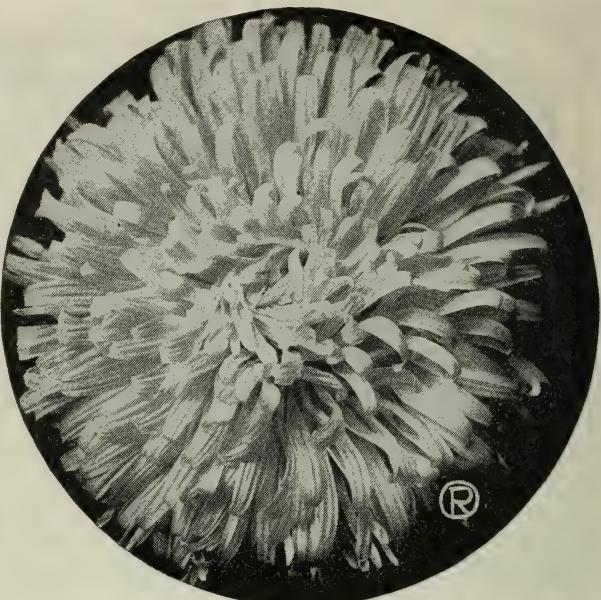
Considered by many to be the most beautiful of all the Asters (see cut). It is an ideal cutting variety, as each plant bears a number of exquisitely formed large flowers on long, stiff stems.

Pure White, Crimson, Violet or Finest Mixed, Pkt. 10c; $\frac{1}{8}$ -oz. \$1.00

The Bride.—New and lovely shade; white passing to rose. Pkt. 15c; $\frac{1}{8}$ -oz. \$1.25

ASTER PLANTS

And all popular annual bedding plants supplied in season. See pages 9 to 11.



Improved Giant Crego Aster.

QUEEN OF THE MARKET.—Most valuable for early cutting. The plants branch freely, and produce a great many well-formed flowers nearly a month in advance of the later sorts.

White, Pink, Lavender or Finest Mixed, Pkt. 10c; $\frac{1}{8}$ -oz. 40c

Benary's New Yellow.—A new color, pale yellow, said to come true. A branching variety, producing freely large double flowers of fine shape. Pkt. 15c

LADY ROOSEVELT.—A new giant late-flowering, long-stemmed chrysanthemum aster. It has heavy incurving petals; flowers very large and gorgeous pink. Excellent seller as a cut flower; good until frosts.

Pkt. 15c; $\frac{1}{8}$ -oz. \$1.00

VICK'S MIKADO.—In size and beauty equals the Comet, and comes into bloom about 10 days earlier. A profuse bloomer.

White or Pink, Pkt. 10c; $\frac{1}{8}$ -oz. \$1.00

SUPERB LATE BRANCHING.

The most popular late-flowering aster. Flowers are very large in size and borne on long, stiff stems, 2 to $2\frac{1}{2}$ feet high, which, together with the ideal form of the bloom, at once places them at the head of our September flowers. The petals are long, giving a chrysanthemum-like appearance to the flower, which greatly enhances its beauty.

Crimson, Dark Blue, Light Blue, Rose, Pink, White or Finest Mixed, Pkt. 10c; $\frac{1}{8}$ -oz. 60c

BABY'S BREATH.—See Gypsophila, page 53.

BACHELOR'S BUTTONS.—See Centaurea, page 50.

BALLOON VINE

Annual climber; flowers white; seed vessels like small balloons; pretty foliage; grows rapidly; height 8 feet.

Pkt. 5c; $\frac{1}{8}$ -oz. 15c

USE "WILGROW"

The best Fertilizer known
—A teaspoonful to a plant does wonders. See pg. 101.

Aster—New Giant Comet.

The Above Asters is OUR SELECTION from 50 Varieties Tested to Date.
WE WON FIRST PRIZE 1911-1912 AT SALEM FAIR FOR BEST ASTERS.

BALSAM

Hardy annual, succeeding best in sunny situations, rich loam and moisture. Very showy and of easy culture; 1½ feet. July to September.

Prize Mixture.—This strain will produce the most perfectly formed double flowers in the greatest variety of colors. Pkt. 5c; ¼-oz. 25c

Improved Camelia-Flowered.—Large, extra double flowers. Finest Mixed, Pkt. 5c; ¼-oz. 25c

BEAN

Scarlet Runner.—The well-known, rapid-growing annual climber, with bright red flowers, from July to September; height 8 feet.

Pkt. 10c; oz. 20c; ¼-lb. 50c

BELLIS—Double English Daisy

Popular spring flowering perennial; height 4 inches. April to September. Double Mixed, Pkt. 10c

Longfellow.—Large, red, long-stemmed flowers. Pkt. 10c

Snowball.—Pure white. Pkt. 10c

Giant Red.—Very rare. Pkt. 20c

BOCCONIA—Plumed Poppy

Hardy perennial; large heart-shaped, glaucous, deep-veined foliage; immense panicles of creamy flowers; July to September; 6 to 8 feet.

Japonica, or Cordata. Pkt. 5c; ¼-oz. 25c

BROWALLIA

A very profuse blooming, half-hardy annual bedding plant, bearing during summer and autumn handsome winged flowers of different shades of blue; 1½ feet. Finest Mixed, Pkt. 5c

CALCEOLARIA

An ornamental plant, and a universal favorite for decorating the greenhouse, or conservatory; produces a mass of beautiful pocket-like flowers of brilliant, self-colors and spotted. Our strains of Calceolaria are very fine.

Hybrida Grandiflora.—Flowers of immense size; seeds saved from finest specimens. Pkt. 25c

Rugosa Major (Perennial Hybrid).—Fine mixed; somewhat larger than preceding; excellent. Pkt. 25c

CALENDULA—Pot Marigold

Hardy annual; one of the most universal garden flowers. This is the Marigold of Shakespeare's time. The flowers appear in solitary heads on stout stalks; large, with flat spreading rays; very showy; flowers the entire season; 1 foot.

Double Finest Mixed, Pkt. 5c; ¼-oz. 20c

CALLIOPSIS

Showy and beautiful free-flowering annuals, of the easiest culture, doing well in any sunny position, blooming all summer and excellent for cutting and massing. It is best to sow them where they are to bloom, thinning out to stand 6 inches to 12 inches apart.

Finest Tall Mixed.—Annual; all shades of yellow, red and brown. Pkt. 5c; ¼-oz. 20c

Hybrida Superba.—Showy new shades. Pkt. 10c; ¼-oz. 20c

Golden Ray (Radiata).

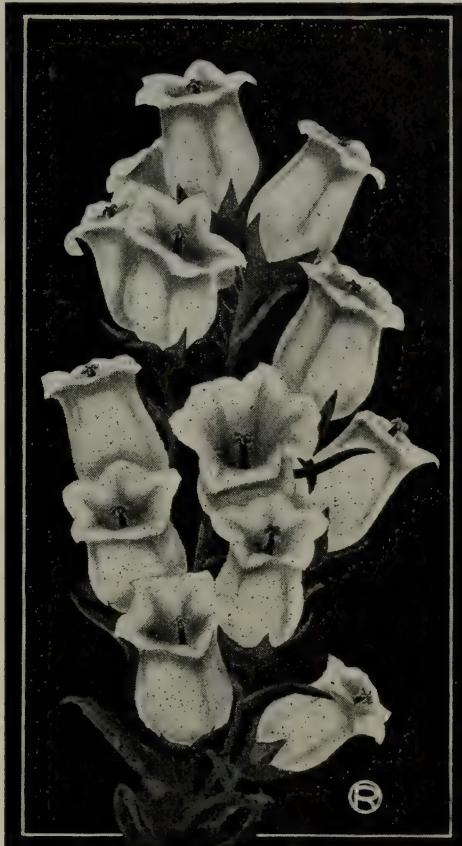
—This new calliopsis is one of the most beautiful and free flowering. From out of the dark brown center the leaflets shade into bright golden yellow rays, thus giving each flower an elegant and striking appearance. Bushes compact and about 10 inches high.

Pkt. 15c



Calliopsis—Golden Ray.

We sell strong field grown plants that will produce a profusion of flowers first season. (See pp. 9 to 16.)



Campanula Medium (Canterbury Bells, p. 50)

CALLIRHOE—Poppy Mallow

Hardy perennial; beautiful trailing plant, with palmate foliage; flowers large, crimson, with white center; fine for rockwork; 1 foot; June to October. Involuerata.

Pkt. 5c; ¼-oz. 25c

CAMPANULA—Bellflower

Well-known, beautiful, hardy herbaceous perennials, bearing a great profusion of attractive bellflowers; thrives best in light, rich soil; some of the varieties flower the first season if sown early.

Persicifolia Grandiflora (Peach Bells).—Undoubtedly one of the finest of the hardy Bellflowers; grows 2 to 3 feet high, with large flowers.

Blue, White or Mixed, Pkt. 10c; ¼-oz. 50c

Persicifolia Gigantea Moorheimi.—A beautiful, new variety; 2 feet high. In June and July bears spikes of large, double pure-white, carnation-like flowers; fine for decorating.

Pkt. 15c; 1-16 oz. \$1.00

Pyramidalis (Chimney Bellflower).—Stately, hardy perennial, either for garden or pot culture; 3 feet.

Blue or White, Pkt. 5c; ¼-oz. 20c

Carpatica (Carpathian Hare-Bell).—Free-flowering, hardy perennial, continuing in bloom the whole season; color clear blue or white; grows 6 inches high; especially good for edging.

Blue or White, Pkt. 5c; ¼-oz. 20c

Canterbury Bells.—(See next page.)

Perennial Flowers are rapidly gaining in favor. MORE should be planted; they are beautiful in borders, beds or among shrubbery, and flower each year. Pgs. 12 to 16.

CANTERBURY BELLS (Campanula Medium)

Very ornamental garden plants of easiest culture; excellent for cutting; hardy biennial; 2½ feet high, producing large bell-shaped flowers of exquisite colors. See Campanula (Bellflower) page 49 for perennial class.

Single Finest Mixed, all colors. Pkt. 5c; ½-oz. 15c
Double Blue, White, Lilac, Rosy Carmine or Mixed. Pkt. 10c; ½-oz. 30c

R. R.'s Prize Mixture.—Biennial; a perfect strain, which contains every color of both single and double flowers (including Calycanthema). Pkt. 10c

Calycanthema (Cup and Saucer Canterbury Bells). This is unquestionably one of the finest types. They have an extra large calyx, which is of the same color as the flower, giving the appearance of a cup and saucer. Lilac, Rose, White or Mixed. Pkt. 15c; 2 for 25c

CANARY CREEPER

A rapid-growing summer-climbing annual, 10 to 15 feet high. It will cover trellis work in the most graceful manner, producing hundreds of pretty fringed, bright yellow flowers. Pkt. 5c; ¼-oz. 20c

CANNA

Stately plants, with massive, rich and handsome foliage; flowers superb, splendid yellow, rich orange, deep carmine, flaming scarlet; others beautifully spotted and marked. (For Canna Roots see index or Bulb Dept.)

Crozy's Hybrids Mixed. Pkt. 5c; oz. 35c

CENTAUREA—Dusty Miller

These are grown for foliage only, and make excellent plants for edgings. They are hardy annuals and grow rapidly. The leaves are silver-coated.

Candidissima.—Thick white leaves; 1 foot. Pkt. 10c

Gymnocarpa.—Fine, fern-like leaves, very graceful and showy; 1 foot. Pkt. 10c

CENTAUREA CYANUS

(Bachelor's Button, Cornflower, Blue Bottle or Ragged Sailor.)—This is one of the most popular annuals; will grow in the poorest of soil, either on seashore or mountains. Seed can be sown either in fall or spring. Sandy soil preferable. Height 2½ feet. Finest Mixed, Pkt. 5c; oz. 35c

Centaura Cyanus fl. pl. (Double Bachelor's Button).—Mixed. Pkt. 10c; ½-oz. 25c

Centaurea Imperialis (Giant Cornflower).—The flowers are of enormous size, fragrant and of charming colors. Excellent for cutting.

Finest Mixed, Pkt. 10c; ¼-oz. 25c

Odorata Marguerite.—Flowers 4 inches across; purest white; very fragrant; July to September. Pkt. 10c; ¼-oz. 40c

Odorata Finest Mixed.—All colors. Pkt. 5c; ¼-oz. 40c

Centaurea Moschatus (Sweet Sultan).—Hardy annual, with very fragrant and showy flowers; 1½ feet; June to September.

Finest Mixed, Pkt. 5c; ¼-oz. 25c

Perennial Varieties

Centaurea Babylonica.—Pure yellow, grand flower; 3 feet; June to September. Pkt. 10c; ¼-oz. 35c

Centaurea Montana (Cornflower of Armenia).—Large, feathery flowers; height 2 feet; July and August. Blue or White, Pkt. 10c; ½-oz. 25c

CHRYSANTHEMUM

These are very showy flowers of easiest cultivation, flowering from July to frost. Excellent for cutting. Height 2 feet. (For plants see pp. 9 to 15.)

Single Annual, Finest Mixed. Pkt. 5c; ¼-oz. 25c

Double Annual, Finest Mixed. Pkt. 5c; ½-oz. 20c

Japanese Early Flowering (Double Flowering).—These flower in the open ground from August to November. Splendid plants for show effect. Height 3 feet. Pkt. 15c

CINERARIA

One of the most gorgeous colored flowering plants for either greenhouse or conservatory. Seeds should be sown in July, but may also be sown in August or September.

Hybrida Grandiflora.—We pride ourselves in offering the choicest strain of this gorgeous flower. Grand, large blooms in umbel spikes are borne way above the foliage; colors and markings are superb; 1½ feet. Pkt. 35c

CANDYTUFT—Iberis

Showy, branching plants, much grown in masses in beds or for edging; also grown extensively for cut flowers; of easy cultivation, they succeed in any rich garden soil.

Finest Mixed. Pkt. 5c; ½-oz. 20c

Crimson. Pkt. 5c; ¼-oz. 15c

Empress.—A large-flowered variety of purest white; grown extensively for cut flowers; heads broad. Pkt. 5c; ¼-oz. 20c

PINK BEAUTY (Novelty).—Fine, true pink; an exquisite flower. Pkt. 15c

Dwarf White Little Prince.—Grows but 6 inches high and throws up strong trusses of pure white flowers; excellent for edging or bordering. Pkt. 10c; ¼-oz. 50c

Semperflorens.—Perennial; pure white flowers, evergreen foliage. Pkt. 10c; 1-16 oz. 35c

CARNATION

Everyone loves Carnations. For started plants of the finest varieties see pages 9-15.

Chabaud.—Fall and winter blooming of finest quality. Used mostly by florists. Double flowers. Pkt. 25c

Margaret Carnations.—The earliest to bloom, and producing large, double, sweet-scented flowers. Being half-hardy perennials, if they are slightly protected during the winter they will flower profusely the next summer.

Benary's Giant.—Extra large flowering and of the most beautiful colors. Pkt. 15c

Red, White or Yellow.—Large flowers. Pkt. 15c

Choice Mixed. Pkt. 10c; ¼-oz. 50c

CELOSIA CRISTATA—Cockscomb

Showy annuals of easy cultivation; 1 foot. Producing large, brilliant, comb-like flower heads.

Glasgow Prize.—Showy, dark crimson combs. Pkt. 10c; ¼-oz. 35c

Finest Mixed.—Rich mixture. Pkt. 5c; ¼-oz. 20c

CELOSIA PLUMOSA—

Feathered Cockscomb

The plant grows 2 to 3 feet, is of handsome pyramidal form, and the numerous massive plumes, which resemble an ostrich feather waving gracefully above the foliage, make it one of the most effective ornamental plants for either pot or outdoor planting. It is of easy culture.

Thompsoni Magnifica.—The most perfect strain of the ostrich plumed Cockscombs. The flower spikes vary in the most magnificent shades of colors, ranging from the clearest yellow to the darkest of blood red. In constant bloom from July to November. Should be planted in every garden, large or small.

Finest Mixture. Pkt. 10c; ¼-oz. 25c

Thompsoni Golden Yellow.—True color. Pkt. 10c

Thompsoni Crimson.—True color. Pkt. 15c



Shasta Daisy. (See page 51.)

FLOWERING PLANTS.—We have thousands of hardy Flowering Annual and Perennial Plants and Bulbs during April and May. See pgs. 5 to 16.



Cosmos, Early Flowering.

CLARKIA

A mighty handsome annual, which should be far more widely known. It is of easy cultivation, graceful in habit of growth, and lends itself as well to bedding as for cutting. The flowers are borne all along the stems and resemble carnations to quite an extent; 1 foot; July to October.

Elegans.—Double mixed.

Pkt. 5c

COSMOS

Among the garden annuals that have come into prominence in recent years, the Cosmos has a most brilliant future. It is a show in the garden and magnificent when cut. Formerly we had to be content with the late-flowering type, which was often killed by early frost. Now that we have a most perfect type of the early flowering class, every garden should contain this exquisite flower. (See cut.)

Benary's Early Flowering.—If sown out-of-doors in May, flowers can be picked early in July. The plants grow but 4 feet high, and do not require staking, like the late-flowering varieties. Flowers large and beautiful.

Early Flowering, White, Pink or Mixed.

Pkt. 10c; $\frac{1}{4}$ -oz. 25c

Klondyke.—Golden yellow, flowers large and borne on long stems. Medium early.

Pkt. 10c

Mammoth, Mixed.—Flowers often 4 inches across; plants 7 feet high. Blooms do not appear until October, when other flowers are scarce.

Mixed, Pkt. 5c; $\frac{1}{4}$ -oz. 15c

COREOPSIS

Lanceolata Grandiflora.—Hardy perennial. This is one of the finest of hardy plants, with large, showy, bright yellow flowers, produced in the greatest abundance from June till frost. As a cut flower they stand near the head among hardy plants, having long stems and lasting in good condition a week or more. Easily grown from seed, flowering the first year, if sown early.

Pkt. 10c; $\frac{1}{4}$ -oz. 25c

Grandiflora.—Very similar to above except this variety has glabrous leaves; 2 feet; all summer.

Pkt. 10c; $\frac{1}{4}$ -oz. 25c

COBAEA SCANDENS

Popular climbing perennial, flowering the first season. Large, purple, bell-shaped flowers appear in great profusion during the fall months. Foliage very graceful; 20 feet.

Pkt. 10c; $\frac{1}{4}$ -oz. 25c

COLEUS

Splendid bedding plants, with beautifully colored foliage; easily grown from seed if kept in warm temperature; tender perennial.

Benary's Exhibition.—Superb.

Pkt. 25c

CONVOLVULUS MINOR.—(See Morning Glory, p. 55.)

CORNFLOWER.—(See Centaurea Montana, page 50.)

A hedge of Free Flowering Dahlias is as beautiful and more showy than a hedge of Roses. They are in full bloom when other flowers are scarce. See pp. 62-67.

CYCLAMEN

Beautiful plants for the window or greenhouse, with mottled leaves and rich-colored flowers. Both the strains offered below have gained a reputation for their large size, perfect form and brilliant colors.

Giganteum.—Finest mixed. Pkt. 35c

Papilio (Butterfly).—The edges of the flowers are beautifully fringed or waved; mixed colors. Pkt. 25c

CYPRESS VINE

Finest Mixed.—A fast-growing annual vine, with feathery, dark green foliage and star-like flowers; July to October; 20 feet. Pkt. 5c; $\frac{1}{2}$ oz. 15c

DAHLIA

This very popular flower can easily be raised from seed; in fact, it is surprising how many new varieties are yearly introduced from seedlings. Seed sown in March will produce flowers in August.

Cactus-Flowered, Double Mixed. Pkt. 20c

Double Show, Finest Mixed. Pkt. 10c

Single Giant Perfection.—Flowers are gigantic and exquisitely colored; 4 feet. Pkt. 10c

DAHLIA BULBS.—Latest and best, see pp. 62-67.

DAISIES

Burbank's Shasta.—Very popular and desirable perennial; the larger, single white flowers are freely produced on long stems. We offer you the best strain in plants or seed. (See cut, page 50.) Pkt. 15c

Double Daisies.—(See Bellis, page 49.)

New Orange Daisy.—(See Dimorphotheca.)

DELphinium.—(See next page.)

DIANTHUS—Garden Pink

All the varieties listed below are very desirable, and will flower the first season even sown out of doors in May. They flower early and continue throughout the entire summer. They are excellent for cutting, as well as bedding. Height 1 foot.

Chinensis fl. pl.—(Chinese Pink.) Large double flowers in unlimited variety of colors.

Finest Mixed, Pkt. 5c; $\frac{1}{2}$ -oz. 20c

Hedgewigii fl. pl.—(Japanese Pink.) Finest Mixed, Pkt. 5c; $\frac{1}{2}$ -oz. 25c

Fireball.—New, extra double, brilliant, dark scarlet; very beautiful. Pkt. 10c; $\frac{1}{2}$ -oz. 50c

Snowdrift (Lancineatus).—Extra large, pure white, double. Pkt. 10c; 1-16 oz. 50c

Benary's Prize Mixture.—Very rich. Pkt. 5c; $\frac{1}{2}$ -oz. 25c

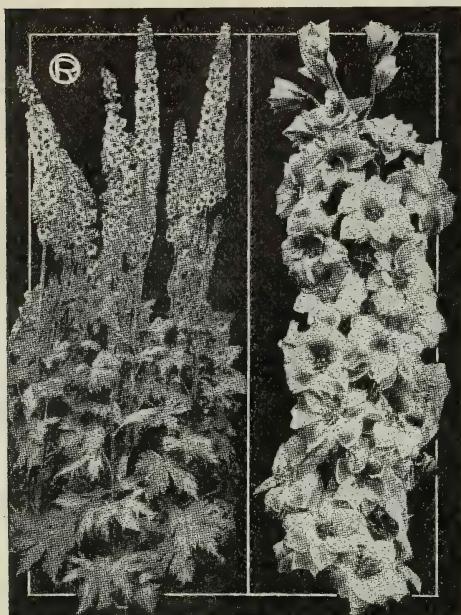
Semperflorens (Perennial Hardy Garden Pinks).—Very beautiful, sweet-scented, double, semi-double and single flowers in great diversity of colors.

Pkt. 10c; $\frac{1}{2}$ -oz. 25c

DIMORPHOTHECA AURANTIACA

This new single African "Golden Orange" Daisy is rare and showy; easily grown from seed and very free-flowering all summer; 12 to 15 inches high.

Pkt. 5c; oz. 15c



Delphinium Plant and Flower Spike.

DELPHINUM—Perennial Larkspur.

Handsome, hardy perennial plants for the herbaceous border and shrubbery, producing a profusion of splendid spikes of flowers throughout the summer; will usually bloom the first season. (For large plants see page 14.)

Cashmerianum.—Large, dark blue flowers; hooded form.
Pkt. 15c; $\frac{1}{8}$ -oz. 25c

Chinese Azureum.—This variety branches very freely and produces its flowers on single stems, in greatest abundance. Clear, deep blue. July to October. Height, 3 feet.
Pkt. 5c; $\frac{1}{8}$ -oz. 15c

Cardinale.—Scarlet; 3 feet.
Pkt. 15c

Formosum.—Long-spurred, brilliant blue flowers, with white eye; 4 feet; July to October.
Pkt. 5c; $\frac{1}{8}$ -oz. 15c

Elatum Hybridum.—Superb collection of finest double varieties.
Pkt. 10c; $\frac{1}{8}$ -oz. 25c

DIGITALIS—Foxglove

Hardy perennials, very desirable for effective massing or grouping; invaluable either in the hardy border, between shrubs or in solid beds. (See cut.)

Beauty Mixture.—Comprising all the choicest colors.
Pkt. 5c; $\frac{1}{8}$ -oz. 25c

Gloxiniaeflora, Finest Mixed.—Flowers spotted similar to gloxinias.
Pkt. 5c; $\frac{1}{8}$ -oz. 15c

Montrosa (Mammoth Foxglove).—The tall spikes are surmounted by one monstrous flower; all colors mixed.
Pkt. 10c; $\frac{1}{8}$ -oz. 30c

DOLICHOS—Hyacinth Bean

Annual climbers, with hyacinth-like purple and white flowers, born in clusters; 10 feet; July to September.
Mixed. Pkt. 5c

ECHINOCYSTIS LOBATA—**Wild Cucumber**

The fastest growing annual vine in existence; will grow 20 feet in six weeks. Pretty foliage and inconspicuous white flowers. Soak seed in water 24 hours.
Pkt. 5c; $\frac{1}{8}$ -oz. 20c

ESCHSCHOLTZIA—California Poppy

One of the most popular garden annuals. Seeds should be sown very early. It stands considerable cold and blooms after the first frosts. If well protected plants will live through the winter. (See cut.)

Finest Mixed.—All shades.
Pkt. 5c; oz. 30c
Californica.—Bright yellow.
Pkt. 5c; oz. 30c
Alba.—Pure white.
Pkt. 5c; oz. 35c
Carmine.—A beautiful rose carmine. Pkt. 10c; oz. 60c
Golden West.—Very large, bright yellow flowers.
Pkt. 10c; oz. 50c

FOUR O'CLOCK.—(See Marvel of Peru, page 54.)

FORGET-ME-NOT.—(See Myosotis, page 55.)

FOXGLOVE.—(See Digitalis.)

GAILLARDIA—Blanket Flower

Splendid, showy plants for beds or borders; excellent for cutting; the hardy perennial varieties will also bloom the first season, if sown early.

Grandiflora Superba.—Hardy perennial; splendid mixed varieties; 2 feet.
Pkt. 10c; $\frac{1}{8}$ -oz. 20c
Picta Lorenziana.—Hardy annual; double mixed colors; 2 feet.
Pkt. 5c; $\frac{1}{8}$ -oz. 30c

GERANIUM

Finest Mixed Hybrids.—A mixture of the leading varieties. Tender perennial; 18 inches; May to October.
Pkt. 25c

GLOXINIA

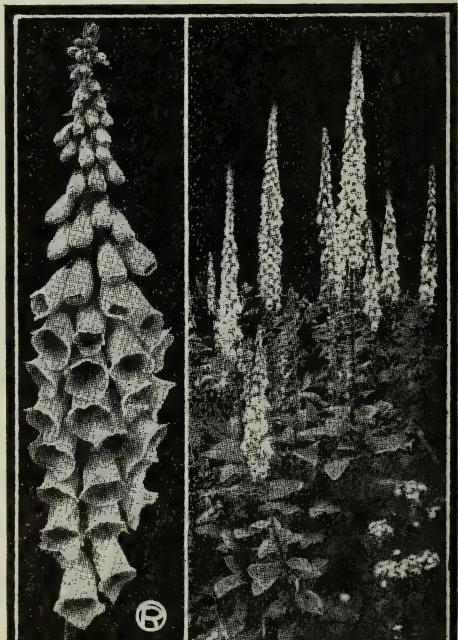
Showy, free-flowering plants for pot culture; producing magnificent flowers of the richest colors; 1 foot.

Hybrida Grandiflora.—The best strain in existence, embracing all the choicest self-colored, tigered and spotted flowers.
Pkt. 25c

GOMPHRENA—Globe Amaranth

A dwarf hardy annual, with pretty clover-like head of purple, white and red flowers; 12 inches. Flowers everlasting.

Finest Mixed.
Pkt. 5c; $\frac{1}{8}$ -oz. 20c



Digitalis—Foxglove Plant and Flower Spike.

GODETIA—Satin Flower

Finest Mixed.—This showy, hardy annual deserves greater popularity. Mallow-like flowers, varying from white to all shades of pink and crimson. They grow rapidly, and flower profusely; of easy cultivation, both at seashore or mountain resorts; 1½ feet; July to October. Pkt. 5c

GOURLDS

Ornamental.—Fast-growing annual vines; cucumber-like foliage; creamy white flowers and bearing gourds of the most interesting forms and colors.

Finest Mixed. Pkt. 5c; oz. 25c

GYNERIUM

Argenteum.—Hardy perennial. The famous pampas grass, with beautiful silvery plumes; 10 feet. Pkt. 10c

GYPSOPHILA—Baby's Breath

Pretty free flowering, elegant plants, succeeding in any garden soil. Their misty white panicles of bloom are largely used for mixing with other cut flowers.

Elegans.—Hardy annual, easily grown from seed; pure white; 2 feet; June. Pkt. 10c

Elegans Rosea.—Hardy annual; bright rose; 2 feet. Pkt. 10c

Paniculata.—Hardy perennial. One of the finest for cutting. Pure white flowers, very small and borne in large, delicate sprays. June to September; 3 feet. Pkt. 10c; ½-oz. 25c

For strong roots of G. Paniculata for immediate effect see pages 12-15.

Repens.—Perennial. Plants dwarf about six inches; flowers white, fine for borders or rock work. Pkt. 10c; ½-oz. 25c

HELIOTROPE

Most pleasing, fragrant, tender perennial; popular as a garden bedding plant; also for cutting. Some of the best plants may be raised from seed very readily; 1½ feet; June to October.



Heliotrope.

Finest Mixed. Pkt. 5c

Queen Marguerite.—A new variety, which grows very compact and produces single heads of deep blue; extremely fragrant flowers, which often cover the entire plant. A grand novelty and well worth a trial. Pkt. 15c

Madame de Blonay.—White; fine for bouquets. Pkt. 15c

HESPERIS—Sweet Rocket

Hardy biennial. Showy terminal spikes of all colors; very popular and fragrant; will grow in any common soil; 2 to 3 feet; June to October.

Finest Mixed. Pkt. 5c

HELIANTHUS—Sunflower

Among the showiest of our garden plants.

Californicus fl. pl.—Very large, perfectly double yellow flowers; 5 feet; annual. Pkt. 5c; oz. 35c

Globosus Fistulosus.—Flowers immense, from 12 to 15 inches in diameter; globular and extremely double; the most effective of all annual sunflowers. Pkt. 5c; oz. 35c

Perennial Mixed.—A choice mixture of the best perennial varieties. Pkt. 10c

HIBISCUS

Africanus.—Hardy annual; yellow flowers, having a maroon center; 2 feet; July to October. Pkt. 5c

Marshfield, Ore., March 9, 1912.

Routledge Seed & Floral Co.

Dear Sirs: I received all my plants and seeds and am well pleased with them. Thank you very much for the extra rosebushes and seeds.

Yours truly,

MRS. JENNIE LANDRITH.

Arcata, Cal., Feb. 19, 1912.

Routledge Seed & Floral Co.

Dear Sirs: My seeds came all as I ordered them with your premiums, too. I assure you I am well pleased.

Yours truly,

MRS. SARAH H. LINDSEY.

HOLLYHOCKS

One of the showiest of hardy garden plants; no grandmother's garden was complete without these stately flowers; excellent for planting among shrubbery or forming a background for other flowers; 6 to 7 feet. (See cut.)

Allegheny.—Semi-double; mammoth flowers, having the edges of the petals finely fringed and lacquered; will bloom the first year if sown early; choicest mixed colors. Pkt. 10c; ½-oz. 25c

Double German Ever-Blooming.—Will bloom the first year from seed, if sown early. Pkt. 5c; ¼-oz. 35c

New Annual Ever-Blooming.—This is one of the best introductions of late years. Seeds sown in the house in March will produce flowers in July on plants 4 feet high. The plants do not attain their perfection until their second year, when they grow 7 to 10 feet high, and flower continuously from June till frost.

Single Mixed, Pkt. 5c; Double Mixed, Pkt. 10c

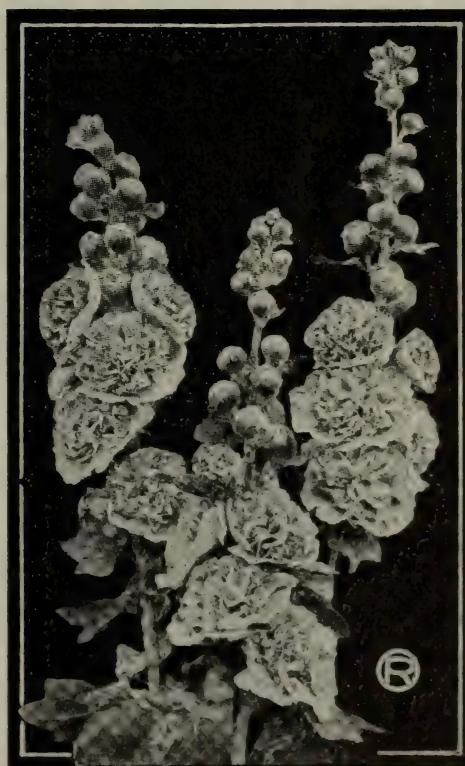
Chater's Improved.—Our strain of this is the best that can be produced; seeds saved from the most double flowers. White, pink, crimson, lilac or mixed. Pkt. 10c; ½-oz. 35c

HUMULUS (Japanese Hop)

Hardy annual climber. Of rapid growth. Fine for covering verandas and trellises, attaining a height of 12 feet.

Japonica Variegata.—Foliage green and white; very pretty and effective. Pkt. 10c; ¼-oz. 25c

COMMON HOP ROOTS.—Page 16.



Hollyhock—Chater's Improved.

HUNNEMANNIA

Fumariaefolia.—(Giant Yellow Tulip Poppy). Should be treated as an annual. Sow seeds out-of-doors in May and flowers will appear in August and flower continuously until frost. Foliage fern-like. Plants attain a height of 2 feet. Flowers are tulip-shaped, pure golden yellow. Very showy and when cut and put in water they will last a full week. One of the most valuable garden plants we know of.

Pkt. 10c; $\frac{1}{8}$ -oz. 25c

HYACINTH BEAN.—(See Dolichos, page 52.)

IPOMOEA—Moonflower

Grandiflora Alba.—Large, heart-shaped leaves, and large, pure white flowers, which open only late in the evening; 10 feet. Pkt. 10c

Ipomoea Purpurea.—(See Morning Glory, page 55.)

LARKSPUR

These are splendid, hardy annuals, which, when sown in clumps in front of shrubbery, make a pleasing effect, and the slender flower stalks, when cut, are most desirable for vases; July to October.

Double Dwarf Mixed.—A very compact growing bush, throwing up many splendid spikes of flowers in all colors. Pkt. 5c; $\frac{1}{4}$ oz. 20c

Tall Emperor.—Tall spikes of exquisite double flowers in unlimited quantity; 3 feet. Pkt. 5c; $\frac{1}{4}$ -oz. 15c

Giant Hyacinth Flowered.—Tall mixed; double. Pkt. 5c; $\frac{1}{4}$ -oz. 20c

PERENNIAL LARKSPUR.—(See Delphinium.)

LATHYRUS LATIFOLIUS**Perennial Pea**

Free flowering, hardy perennial climbers, bearing beautiful pea-shaped flowers.

White or Pink. Pkt. 10c; $\frac{1}{2}$ -oz. 50c
Mixed. Pkt. 5c; oz. 50c

LOBELIA

The following dwarf and trailing varieties of this popular and beautiful flowering plant will be found most desirable for pot culture, edgings or borders, hanging baskets, window boxes, etc. They bloom profusely from June to November. Delicate, graceful foliage and pretty star-like flowers.

Erinus Gracilis.—Trailing deep blue flowers; excellent for vases, hanging baskets and window boxes. Pkt. 5c; $\frac{1}{8}$ -oz. 25c

Hybrida Sapphire.—New 1912.—This is by far the most beautiful trailing Lobelia to date; very large, deep sapphire blue flowers with a large and clear white eye. Very free and early flowering; extra long trailer. Pkt. 20c

Free—25c extra
with each \$1.00
purchase in pkts.
and ounces only.



Mignonette.



NEW MORNING GLORIES

Barnard's Perpetual.—Deep blue with white eye; very fine; trailing. Pkt. 10c; 1-16 oz. 25c

Hamburgia.—New, sky blue, white eye; growing rapidly; long, drooping flower stalk; excellent for hanging basket. Pkt. 15c

Crystal Palace Compacta.—Little dwarf bedding plant, dark blue flowers cover the whole plant during the entire season; very compact and used extensively in carpet bedding or edging; height 4 inches. Pkt. 10c; $\frac{1}{8}$ -oz. 50c

Compacta White Lady.—White flowers. Pkt. 10c

Cardinalis (Cardinal Flower).—Hardy perennial; deep cardinal red flowers; thrives well in wet places. August and September; 3 feet. Pkt. 15c

KUDZU VINE

Pueraria Thunbergiana.—Tender perennial climber from Japan, growing 30 to 50 feet in a single season. Pkt. 10c

MARIGOLD—Tagetes

Widely grown, hardy annuals, invaluable for bedding and producing an elegant display of yellow, orange and brown flowers from early summer till frost.

Mammoth African, Finest Mixed.—Very large and double, in finest variety; 3 feet. Pkt. 5c; $\frac{1}{4}$ -oz. 25c

Tall Double French, Finest Mixed, Pkt. 5c; $\frac{1}{4}$ -oz. 20c
Dwarf Double French, Finest Mixed. Pkt. 5c; $\frac{1}{8}$ -oz. 15c

MARVEL OF PERU—Four o'Clock

Old-fashioned, hardy annual. Flowering from July to October, in very brilliant colors; 3 feet. Pkt. 5c; oz. 15c

MESEMBRYANTHEMUM

Dwarf trailing plants of great beauty, blooming the whole summer, thriving best in a dry, loamy or sandy soil, requiring a warm, sunny situation; half hardy annuals; 8 inches.

Crystallinum (Ice Plant).—Flowers white; prized for its singular icy foliage. Pkt. 5c

MIGNONETTE—Reseda

A universal favorite; very fragrant; no home garden is complete without Mignonette. It needs a cool soil only moderately rich; grows 6 to 12 inches high and is treated as a half hardy annual. Sown from April to early in July. (See cut.)

Grandiflora.—Large-flowering; sweet. Pkt. 5c; oz. 15c

Defiance.—Giant spikes; flowers abundant and very fragrant. Pkt. 10c; $\frac{1}{2}$ -oz. 50c

Machet.—Excellent for pots; very select strain; red flowers. Pkt. 10c; $\frac{1}{4}$ -oz. 25c

White Pearl.—New; the best white flower; very attractive. Pkt. 10c; $\frac{1}{4}$ -oz. 75c

MIMULUS—Muskplant

Moschatus.—A tender trailing plant with small yellow flowers, giving forth a musk-like fragrance; 6 inches.

Pkt. 10c

MORNING GLORY—*Ipomoea Pururea*

The tall varieties are popular, well known, rapid growing climbers of the easiest cultivation; very fine for covering arbors, trellises, porches, etc. The Minor or Dwarf varieties flower very freely and do not require support. (See cut, page 54.)

Convolvulus Major.—Tall, choice, single mixed; all colors.

Pkt. 5c; oz. 15c

Convolvulus Minor.—Dwarf mixed.

Pkt. 5c; oz. 15c

Imperial Japanese Fringed.—These have very large fringed flowers in a great variety of the most exquisite colorings; handsome, variegated foliage.

Mixed.

Pkt. 10c; oz. 20c

New Japanese Giant.—Immense large flowers of beautiful shades.

Pkt. 10c; oz. 25c

Japanese Double Mixed.—This double Japanese sort is very fine in leaf, flower and growth.

Pkt. 15c

(*Notes*.—Soak the Japanese Morning Glory seed in warm water for 24 hours before planting.)

MYOSOTIS—Forget-Me-Not

Half hardy perennials, producing little blue, star-like flowers profusely in early spring. Flowers first season if started early.

Finest Mixed.—Six inches

Pkt. 5c

Dissitiflora.—Rich blue; flowers very early; one of the best; six inches.

Pkt. 10c; $\frac{1}{2}$ -oz. 35c

Alpestris Victoria.—Of bushy habit; bearing large double bright blue flowers; very fine; six inches.

Pkt. 10c; $\frac{1}{2}$ -oz. 25c

Alpestris Indigo Blue.—New, very fine.

Pkt. 5c; $\frac{1}{2}$ -oz. 20c

Palustris Semperflorens.—Perennial; splendid bright blue variety; blooms from early spring until autumn.

Pkt. 10c $\frac{1}{2}$ -oz. 50c

NIGELLA (Love in a Mist, or Devil in the Bush)

Damascena.—A compact, free flowering plant with finely cut foliage, curious looking flowers and seed pods; of easy culture, growing in any garden soil; hardy annuals; blue and white; one foot.

Mixed, Pkt. 5c

Miss Jekyll.—A lovely variety with cornflower blue blossoms; splendid for cutting.

Pkt. 10c

NASTURTIUM

One of the best known and popular annual climbers. Flowers are borne in great profusion the whole season, lasting until frosty weather. The Nasturtium

has been greatly improved in the past few years in size as well as in colors and markings. We offer only the finest strains, producing the largest and richest flowers.

Lobbianum, Tall or Climbing

Asa Gray.—Yellowish white; very fine.

Black Prince.—New; very dark.

Crown Prince.—Rich blood red.

Golden Queen.—Very fine yellow.

Margaret.—Yellow, spotted red and yellow.

Primrose.—Cream, brown spots.

Regina.—New salmon shade.

Spitfire.—Bright fiery scarlet; profuse bloomer.

Prices.—Your choice of above varieties, Pkt. 5c, 8 Pkts. for 30c; oz., any kind, 20c.

Tall Prize Mixture.—This is undoubtedly the finest mixture of tall Nasturtiums offered anywhere. Every shade is grown separately and then mixed.

Large Pkt. 10c; oz. 20c; $\frac{1}{4}$ -lb. 50c; lb. \$1.50

Tall Choice Mixed.—A very fine selection of beautiful varieties.

Pkt. 5c; oz. 10c; $\frac{1}{4}$ -lb. 30c; lb. 75c

Ivy-Leaved, Finest Mixed.—The ivy leaves, borne on very slender stems, are of a dark metallic color, which forms a striking contrast to the crimson scarlet flowers. An excellent variety for vases, hanging baskets, etc.

Pkt. 10c; oz. 25c

Variegated Queens.—A new strain of tall Nasturtiums having beautifully variegated leaves; green, white and yellow; flowers large and of many bright colors.

Superb Mixed. Pkt. 10c; oz. 25c

Dwarf Varieties—Nasturtium

Tropaeolum Minor.—The flowers are very brilliant and attractive. Plants evenly dwarf and are often used for a border. When about two inches high, thin so as to give each plant about one foot of room. Hardy annual; about one foot high.

Aurora.—Reddish orange, veined carmine pink.

Beauty.—Yellow and scarlet; very attractive.

Empress.—Deep crimson; extra dark leaved.

Golden King.—A rich golden yellow.

Regelianum.—Purplish violet; dark and rich.

Vesuvius.—New salmon red; very beautiful.

Price. all above Dwarf varieties, Pkt. 5c, 6 for 25c; per oz. 20c.

R. R.'s Dwarf Beauty Mixture.—Composed of new and rare sorts; exceedingly brilliant and beautiful.

Large pkt. 10c; oz. 20c; $\frac{1}{4}$ -lb. 50c; lb. \$1.50

Choice Dwarf Mixed.—Not equal to above but far superior to most mixtures.

Large pkt. 5c; oz. 15c; $\frac{1}{4}$ -lb. 30c; lb. \$1.00



Nasturtium—Trailing.

For permanent and hardy climbing flowering vines and trailers, see pg. 92.

Routledge's "Highest Quality" seeds cost more and they are WORTH MORE. "Seeds are, after all, the least expensive article in making the garden. Always buy the best seed that the trade offers. Low-priced seeds will give low quality crops."

PANSY—Viola

This popular flower thrives best on a cool, moist but well-drained soil enriched with well-rotted barn-yard manure or fine ground bone. Seeds sown early will produce fine plants for autumn blooming. The proper method, though, is to sow in July or August and protect the plants during the winter, when they will flower continuously that spring and summer.

Our Pansies are renowned for size, quality and color.

EXHIBITION PRIZE MIXTURE.

For variety of markings, beauty of form, large size, splendid texture this superb strain cannot be excelled.

Pkt. 15c; $\frac{1}{8}$ -oz. 75c

E. J. Steele's Mastodon.—Giant strain; Oregon grown seed.

Mixed, Pkt. 25c; $\frac{1}{8}$ -oz. \$2.00

Bugnot's Large Blotched.—A magnificent strain; very large flowers; great diversity of colors.

Pkt. 25c; $\frac{1}{8}$ -oz. \$1.00

Cassier's Giant, Finest Mixed.—Strong-growing strain, producing rich and varied colored flowers of large size.

Pkt. 15c; $\frac{1}{8}$ -oz. 75c

English Show Strain.—A splendid strain, valued for the texture and varied markings of the flowers.

Pkt. 10c; $\frac{1}{8}$ -oz. \$1.00

Choice Mixed.—A fine bedding strain.

Pkt. 5c; $\frac{1}{8}$ -oz. 50c

Giant Trimardeau.—The most popular strain for this locality, and deservedly so, on account of the strong, sturdy plants and the enormous flowers of the greatest variety of colors.

Fine Mixed, Pkt. 10c; $\frac{1}{8}$ -oz. 75c

Masterpiece.—Elegant ruffled petals; beautiful large flowers, mostly rich dark shades

Pkt. 25c; 1-16-oz. 75c

Giant Flowering Varieties

Adonis.—Light blue; beautiful.

Pkt. 10c

Bridesmaid.—New shades of white and shining rose; beautifully blotched.

Pkt. 15c

Freva.—Extra fine; silver edge.

Pkt. 15c

Golden Queen.—Pure rich yellow.

Pkt. 15c

King of Blacks.—Best velvety black.

Pkt. 10c

Lord Beaconsfield.—Very beautiful; violet purple, shading to white.

Pkt. 10c

Madam Perret.—Fine wine red shades on white.

Pkt. 15c

Snowflake (Candidissima).—Pure white.

Pkt. 15c

Sunlight.—New yellow, orchid flowered.

Pkt. 15c

Purple-Eyed White.—Very beautiful.

Pkt. 10c

Black-Eyed Yellow.—Very fine and effective.

Pkt. 10c

**PENTSTEMON**

The handsome flowers are borne on long terminal spikes, much resembling Gloxinias. Perennial; will bloom the first season if sown early. A dry, light soil is best suited for these plants; 3 feet.

Hartwegi Hybrida Mixed.

Pkt. 10c

Hartwegi Albus.—New; very beautiful; creamy yellow, turning to yellow. Large flowers, profuse bloomer, branching habit; 2½ feet.

Pkt. 25c

PETUNIA

One of our easiest cultivated and freest flowering annuals. Will succeed almost anywhere and give a continuity of the most brilliant bloom from June till killed by frost. The strains we offer are the very choicest obtainable.

SINGLE PETUNIAS.

Pride Mixture.—Magnificent, large, exquisitely fringed and blotched flowers. Vary in color from pure white to dark purple, and are often over 4 inches across; 1½ feet.

Fine Mixed, Pkt. 35c

Ruffled Giants.—Enormous flowers, having edges of petals beautifully ruffled and fluted. Of great variety of colors, many being beautifully veined.

Pkt. 25c

Dwarf, Large, Flowering, Fringed.—A new dwarf selection of the most beautiful ruffled and fringed type. Compact, free flowering plants; 8 inches; excellent for bedding or pots

Pkt. 25c

Large-Flowered, Finest Mixed.—Fine, large flowers in superb mixture.

Pkt. 10c; $\frac{1}{8}$ -oz. 75c

Fine Mixed.—An assortment of medium-sized flowers; fine for bedding.

Pkt. 5c; $\frac{1}{8}$ -oz. 25c

DOUBLE PETUNIAS.

All of our Double Petunias are selected with greatest care, and contain as large a percentage of double flowers as it is possible to obtain.

Giant Double, Finest Mixed Hybrids.—An exceptionally fine strain; remarkable for the large, beautifully colored double flowers.

Pkt. 50c

Giant Double Mixed.—Fringed, unsurpassed.

Pkt. 35c

Choice Double Mixed.—Good assortment of all double kinds.

Pkt. 25c

PHLOX

Drummondii.—These varieties are the largest flowering of the annual phloxes. They are the very finest strains that can be selected, and should be grown in everyone's garden; 1 foot.

Alba.—Pure white, beautiful.

Pkt. 10c; $\frac{1}{8}$ -oz. 25c

Coccinea.—Scarlet.

Pkt. 10c; $\frac{1}{8}$ -oz. 25c

Leopoldi.—Rose, white eye.

Pkt. 10c; $\frac{1}{8}$ -oz. 25c

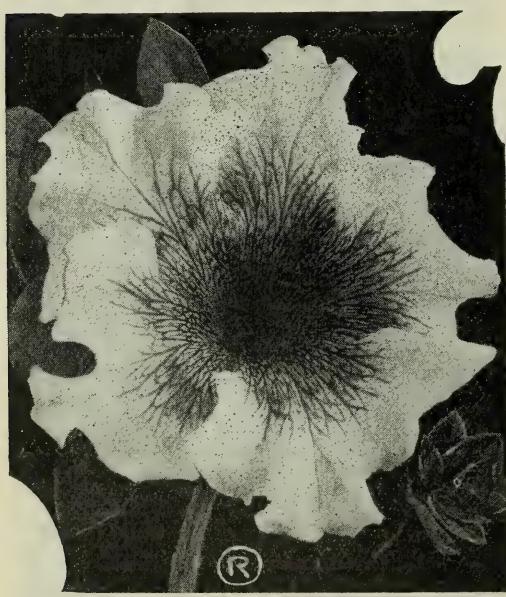
Grandiflora Mixed.

Pkt. 5c; $\frac{1}{8}$ -oz. 35c

Hardy (Decusata).—These rank among the finest herbaceous perennials for beds and borders; mixture of the finest colors; 3 feet. (See plants, page 63.)

Pkt. 10c; $\frac{1}{8}$ -oz. 35c

PINK.—(See Dianthus, page 51.)



Petunia Ruffled Giant.

Pansy and all flowering plants by the thousands. See Annual Plants, pgs. 9-10-11. Write for special price list of out-door flowering plants for April and May delivery.

POR TULACA

One of the freest flowering dwarf annuals, especially adapted for sunny locations. Flowers of the most brilliant colors; 6 inches.

Single, Finest Mixed	Pkt. 5c
Double, Finest Mixed	Pkt. 10c

POPPY—Papaver

Probably no class of plant enjoys a greater popularity and is more widely grown than the Poppy. The annuals should be sown where they are to remain.

Hansa Poppy (Annual).—A new and beautiful single fringed type; pure white, shading to deep crimson; elegantly slitted edge. A real novelty.

Pkt. 20c; 3 for 50c

Admiral (Annual).—A single peony-flowered variety of surpassing beauty, having large, smooth-edged flowers of glistening white, with a broad band of brilliant scarlet around the top. These two colors form a very striking contrast, and when planted in groups produce a magnificent effect.

Pkt. 10c; 1/4-oz. 25c

Miss Sherwood (Annual).—This fine single peony-flowered Poppy bears large flowers of a satiny white, shaded a silky chamois rose, a combination of rare delicacy.

Pkt. 10c; 1/4-oz. 25c

Shirley (Annual).—We offer an extra fine strain of these charming Poppies. They are single and occasionally semi-double, and range in color from the purest white through the delicate shades of pale pink, rose and carmine to the deepest crimson and blood red, while many are daintily edged and striped. In fact, so varied are they that scarcely any two flowers are exactly alike.

Pkt. 10c; 1/4-oz. 25c

Annual Superb Mixture.—A superior strain, containing the choicest of single and double varieties in all of the brightest colors.

Pkt. 5c; oz. 35c

Carnation Flowered (Annual).—Splendid double fringed flowers.

Mixed colors, Pkt. 5c; 1/4-oz. 15c

Iceland, or Nudicaule.—These are of a very graceful, neat habit, with bright green, fern-like foliage, formed in tufts, from which issue slender stalks, about 12 inches in height, bearing beautiful brilliant single flowers in endless profusion, and most useful for cutting; hardy perennial.

Yellow, White, Scarlet or Mixed, Pkt. 10c; 1/4-oz. 25c

Oriental Brillant.—This is the most gorgeous perennial Poppy, flowering in June and July, with enormous vivid scarlet blossoms, often measuring 6 to 7 inches across.

Pkt. 10c; 1/4-oz. 50c

California Poppy.—(See *Eschscholtzia*.)

Giant Yellow Tulip Poppy.—(See *Hunnemannia*.)

PRIMULA—Primrose

The first two varieties named below are hardy early blooming garden plants, and the others beautiful winter blooming house plants. Their various forms and blending of colors are exceedingly pleasing and effective. They thrive best in a sandy loam and leaf mold.

Polyanthus.—Early blooming, dwarf growing plants, valuable for outdoor bedding.

Mixed colors, Pkt. 15c; 1/4-oz. 50c

Vulgaris.—Yellow, common, English Primrose; hardy garden variety.

Pkt. 10c; 1/4-oz. 35c

Oboconica Grandiflora Hybrids.—A lovely, profuse bloomer, bearing beautiful clusters of single flowers.

Pkt. 10c

Oboconica G. Gigantia.—New giant, distinct, very beautiful.

Pkt. 25c

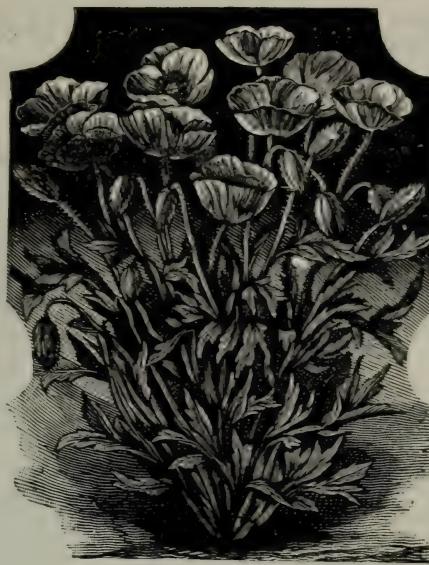
Sinensis, or Chinese Primrose.—The beautiful, large, fringed flowers stand in pyramids, arranged on short flower stems. Blossoms of every shade of color, from pure white to deep crimson, and even deep blue; especially fine for winter and spring flowers in the house; easily grown; free bloomers. We supply the finest strains for florists.

Finest Mixed,

Pkt. 25c

Double Finest Mixed.

Pkt. 50c



Oriental Poppy.

PYRETHRUM—Golden Feather

Aureum.—Half-hardy perennials, grown as annuals. Valuable for edging, as their yellow foliage makes a fine contrast with other bedding plants; 6 inches.

Pkt. 5c

RICINUS—Castor Oil Bean

A magnificent and highly ornamental genus, with picturesque foliage and stately growth, combined with brilliant colored fruit of the giant varieties. Grown as single specimens on lawns and pleasure grounds, they form a striking feature. Hardy annuals.

Finest Mixed,

Pkt. 5c; oz. 15c

Zanzibarensis, Mixed.—Very ornamental; dark bronzy green and red leaves. 8 to 10 feet high.

Pkt. 5c; oz. 20c

Sanguineus Tricolor.—Blood red stems, deep green leaves, with red veins; 6 feet.

Pkt. 5c; oz. 20c

Gibsoni.—New dark red foliage; 5 feet.

Pkt. 10c; oz. 25c

SALPIGLOSSIS

Produces very showy, funnel-shaped flowers of large size. Fine for beds. Half-hardy annuals.

Grandiflora Mixed.—Large-flowering.

Pkt. 10c

SALVIA—Scarlet Sage

This popular bedding plant produces a blaze of brilliant scarlet flowers in the garden during the late summer and fall. Seed should be started in the house during March; 3 feet.

Splendens Compacta.—A splendid semi-dwarf variety, with large spikes of rich scarlet flowers.

Pkt. 10c; 1/4-oz. \$1.00

Zurich.—New dwarf, of special merit; fine flowers, and starts to bloom early.

Pkt. 20c; 1/4-oz. 75c

Fireball.—The earliest semi-dwarf salvia; extremely floriferous.

Pkt. 10c; 1/4-oz. 75c

SCHIZANTHUS

Beautiful garden annuals; flowers charmingly fringed and delicately colored; 1 to 2 feet.

Grandiflora Mixed.

Pkt. 10c

Hillsboro, Ore., Jan. 30, 1912.
The Routledge Seed Co.

Dear Sirs: My dahlias grown from your bulbs last year were a marked success.

Yours truly,
WILHELMINA HEIDL.

Perennial Flowers are rapidly gaining in favor. MORE should be planted; they are beautiful in borders, beds or among shrubbery, and flower each year. See pgs. 12 to 16.

SCABIOSA—Morning Bride

Elegant, hardy annual. Fine for cutting and bedding; flowers quite large and very showy, blooming freely during summer and autumn.
Finest Mixed. Pkt. 5c; $\frac{1}{4}$ -oz. 30c
 White.—Large flowers. Pkt. 5c; $\frac{1}{2}$ -oz. 30c

SHAMROCK—True Irish

This is the genuine Shamrock, and is gathered by a connoisseur on the native land. Pkt. 25c

SNAPDRAGON.—(See *Antirrhinum*, page 47.)

SMILAX

One of the most graceful climbers for greenhouse or conservatory. Pkt. 10c

STOCK—Gilliflower

By far one of the most popular annuals for garden or greenhouse culture. They are superb for cutting, and are of great value to florists for bouquet work. Flowers are of delicious fragrance, large, double, and borne on handsome spikes.

Large - Flowered Ten Weeks.—A splendid double-flowered strain, especially adapted for bedding and pot culture; pyramidal spikes of brilliantly colored flowers; 1 foot. Finest Mixed, Pkt. 15c; $\frac{1}{2}$ -oz. 60c

Giant Perfection.—This is our own strain, grown especially for us in Europe, where the greatest possible care is taken in the selection of good seed. Of branching habit, giant growth and 85 to 90 per cent of large, double flowers. Fine for cutting. White, Light Blue, Crimson, Dark Blue, Pink, Rose or Finest Mixed. Pkt. 10c; $\frac{1}{2}$ -oz. 75c

Princess Alice (Cut and Come Again).—Perpetual blooming; throws out numerous side branches, all bearing clusters of double white, fragrant blooms; fine for cutting; 2 feet. Pkt. 10c; $\frac{1}{2}$ -oz. \$1.00

Beauty of Nice.—24 inches; a handsome, new winter stock of quick growth; flowers of large size. Seedlings will bloom in 10 weeks. Pink or White, Pkt. 10c; $\frac{1}{2}$ -oz. \$1.00

Queen Alexandra.—Delicate rosy lilac. Pkt. 15c
Crimson King.—New. Pkt. 15c

SUNFLOWER.—(See *Helianthus*, page 53.)

SWEET ROCKET.—(See *Hesperis*, page 53.)

SWEET SULTAN.—(See *Centaurea Moschata*, page 50.)

SWEET WILLIAM

Hardy biennial, widely grown for the handsome, showy heads of brilliant flowers from June to September; 1½ feet.

Single Mixed Varieties. Pkt. 5c; $\frac{1}{4}$ -oz. 15c
Double Finest Mixed Pkt. 10c; $\frac{1}{4}$ -oz. 30c

THUNBERGIA

Alata.—Extremely pretty yellow flowers with dark eye; rapid-growing annual climber; used largely for vases, window boxes, etc. Will flower all summer till frost; 5 feet. Pkt. 10c

Alba.—Pure white, with black eye; 5 feet. Pkt. 10c

Aurantiaca.—Orange, black eye. Pkt. 10c

Finest Mixed Pkt. 5c; $\frac{1}{4}$ -oz. 30c

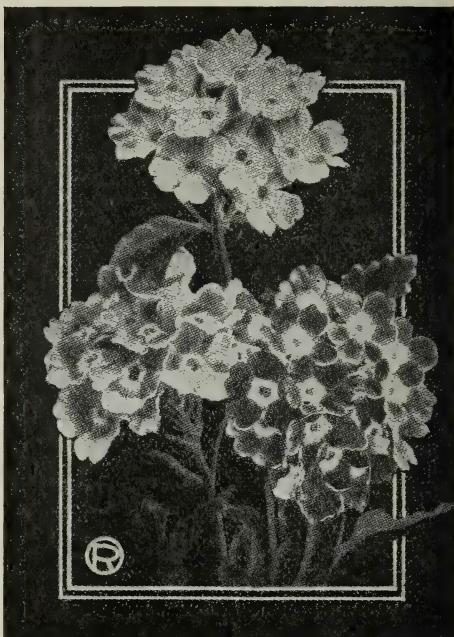
VALERIANA (Garden Heliotrope)

A fine old-fashioned hardy plant. Flowers have a strong heliotrope odor; showy, red or white; fine for bouquets; 2 feet. Mixed, Pkt. 5c

VERBENA

One of the finest annual bedding plants and also suitable for borders, baskets and window boxes. Its heads of brilliant colored flowers produce one mass of bloom throughout the summer.

Monstrosa—(Auricula Eyed) 1912.—The most beautiful and remarkable variety yet introduced far surpassing in size and beauty the well-known variety "Mammoth." The flowers measure 1½ inches across, of good substance and in great variety of colors, each flower having a very large white center, which is very effective in contrast with the brilliant coloring of the main portion of the flower. Hybrida Mixed, Pkt. 20c



Verbena Monstrosa.

Mammoth Strain.—A carefully selected and improved strain. The trusses and individual flowers are of the largest size, of brilliant colors; free blooming and of vigorous habit. White, Scarlet, Rose, Purple, Striped or Mammoth Mixed. Pkt. 10c; $\frac{1}{4}$ -oz. 75c

Fine Mixed.—A good collection. Pkt. 5c; $\frac{1}{4}$ -oz. 25c

VIOLET

Viola Odorata is the well-known English Violet, a free flowering, hardy perennial. Easily grown from seed, though somewhat slow in germinating; succeeds best in partially shaded, moist places.

Odorata, Blue or White. Pkt. 15c

WALLFLOWER

Very highly prized, old-fashioned plants, grown largely for their fragrance; half-hardy perennial varieties; 1½ feet.

Single Finest Mixed. Pkt. 5c; $\frac{1}{4}$ -oz. 15c
Double Tall Branching, Finest Mixed.—Fragrant; 3 feet. Pkt. 10c; $\frac{1}{4}$ -oz. 25c

WILD CUCUMBER.—(See *Echinocystis*, page 52.)

ZINNIA—Youth and Old Age

The double Zinnia is one of the easiest grown and most showy garden annuals. The plants come quickly from seed and make a fine display in a bed or border. Each flower lasts for several weeks, and the plants bloom abundantly until destroyed by frost 1½-2 feet.

Elegans Grandiflora.—A very choice selection of the largest showy varieties. Double Mixed, Pkt. 10c

Elegans, Green Gem.—New and distinct, a novelty; green color shaded with gold; mammoth double flowers. Pkt. 20c

Elegans Cardinal.—A new shade, rich glowing crimson; mammoth double flowers. Pkt. 15c

Giant Isabella.—New, delicate buff shaded yellow; very double and perfect; flowers over 4 inches across. Pkt. 20c

Tall Giant, Double Mixed.—Elegant strain, comprising all colors; 2½ feet. Pkt. 5c; $\frac{1}{4}$ -oz. 25c

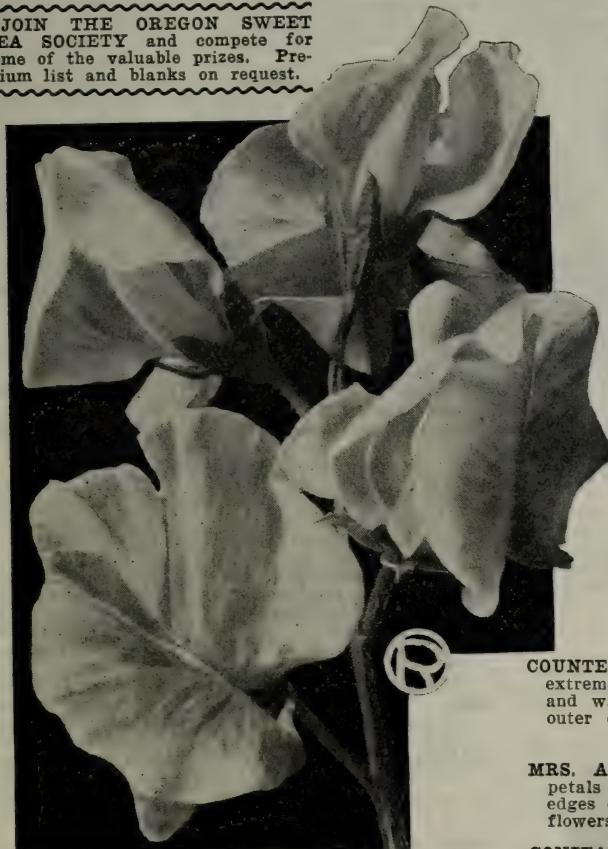
Dwarf Double Mixed.—Fine for edgings, growing 1½ feet high. Pkt. 5c; $\frac{1}{4}$ -oz. 25c

You can buy "so-called" Spencer Sweet Peas for less money from other sources, but if you want the **BEST STRAINS, TRUE TO NAME, COLOR AND TYPE**, buy of us; our prices are right, **QUALITY CONSIDERED**.

SWEET PEAS of Highest Quality

No seed company in the world offers finer Sweet Pea Seed than we. The new orchid-flowered or Spencer types are the latest, and well worth the higher price asked. Those who have tried the true "new Spencers" will never be satisfied again with the old types.

JOIN THE OREGON SWEET PEA SOCIETY and compete for some of the valuable prizes. Premium list and blanks on request.



New Spencer Sweet Peas.

Latest and "Best" American and European novelties of merit (classified by colors).

Free 25c extra with each dollar's worth (see bottom page 61). The letters N. S. P. S. refer to the National Sweet Pea Society of England.

Pure White

ETA DYKE.—The largest and most exquisitely formed pure white Spencer according to N. S. P. S. Beautifully waved; color absolutely pure.

Pkt. 15c; ½ oz. 25c

WHITE SPENCER.—A pure white, of enormous size and splendid substance; long, strong stems; very popular.

Pkt. 10c; oz. 25c

Cream—Buff

ISOBEL MALCOLM.—Cream flowers, well frilled and of exquisite quality. Vigorous, free bloomer, very choice.

Pkt. 25c; ½ oz. 40c

CLARA CURTIS.—The best light yellow in color and size. Placed at the head of the list by N. S. P. S.

Pkt. 10c; oz. 40c

PRIMROSE SPENCER.—A pronounced primrose or creamy white; excellent.

Pkt. 10c; oz. 25c

Last season was a very hard one on sweet peas all over the West. Flowers were not up to standard and seed crop almost a total failure. Good true seed is scarce.

We won the "GOLD MEDAL" highest award at 1912 SWEET PEA SHOW for BEST DISPLAY sweet peas. We had 48 vases of distinct and new kinds.

Cream—Pink

ETHEL ROOSEVELT.—A soft, pleasing primrose overlaid with dainty flakes and splashes of blush-crimson.

Pkt. 10c; ½ oz. 20c

NELL GWYNNE.—Very large and wavy. A most charming type; cream suffused with salmon pink.

Pkt. 10c each; ½ oz. 30c

EVELYN HEMUS.—Cream, with a pink edge. A most exquisite flower and very distinct.

Pkt. 15c; ½ oz. 35c

MRS. W. C. BREADMORE.—An English introduction of exquisite beauty. Buff ground, beautifully edged with pink; large.

Pkt. 10c; ½ oz. 25c

Light Pink

MRS. HUGH DICKSON.—The best light pink to date. A European novelty of sterling merit. You will be delighted with this.

Pkt. 15c; ½ oz. 40c

MRS. ROUTZAHN.—A lovely combination of apricot and pink; a slightly deeper tone than Mrs. Hugh Dickson. Placed by the N. S. P. S. at the top of the cream pink section.

Pkt. 15c; ½ oz. 40c

COUNTESS SPENCER.—Improved strain. Flowers extremely large, beautifully expanded, crumpled and waved. Color soft shell pink, deeper at the outer edges. True seed.

Pkt. 10c; oz. 25c

Pink

MRS. A. IRELAND.—The form is most beautiful; petals waved and crinkled; distinct serrations on edges of standard. The extra large, long-stemmed flowers are most attractive; the best rosy pink.

Pkt. 10c; ½ oz. 25c

CONSTANCE OLIVER.—A refined variety of great beauty and form; rich, delicate rose-pink; charmingly waved and crimped. The large, beautiful flowers, usually in fours well placed on long, strong stems.

Pkt. 15c; ½ oz. 40c

MRS. HENRY BELL.—Giant flowers of finest form. A most charming rich pink on cream. Magnificent in every respect.

Pkt. 15c; ½ oz. 35c

DORIS BURT.—A new shade of rich pink or cerise. Stands the sun well.

Pkt. 15c; ½ oz. 40c

Scarlet—Crimson

MAUD HOLMES.—A new English introduction. Elegant form and type and a beautiful crimson.

Pkt. 15c; ½ oz. 35c

GEORGE STARK.—Awarded 4 F. C. C. and 1 medal. Flowers of perfect form, waved and fluted; of large size. The wings are of the same intense pure scarlet as the standard, making a uniform self-color throughout and absolutely sunproof. The best scarlet to date.

Pkt. 15c; ½ oz. 35c; oz. 50c

DODWELL F. BROWNE.—A new bright crimson of real merit; large and wavy.

Pkt. 10c; ½ oz. 25c

KING EDWARD SPENCER.—Of vigorous growth, profuse bloomer, giant flowers; most popular; scarlet; long stems; true.

Pkt. 10c; oz. 30c

Dark Red—Claret

ARTHUR GREEN.—This is a magnificent new variety of largest size and distinct shade. The general color effect is that of maroon or deep-claret color.

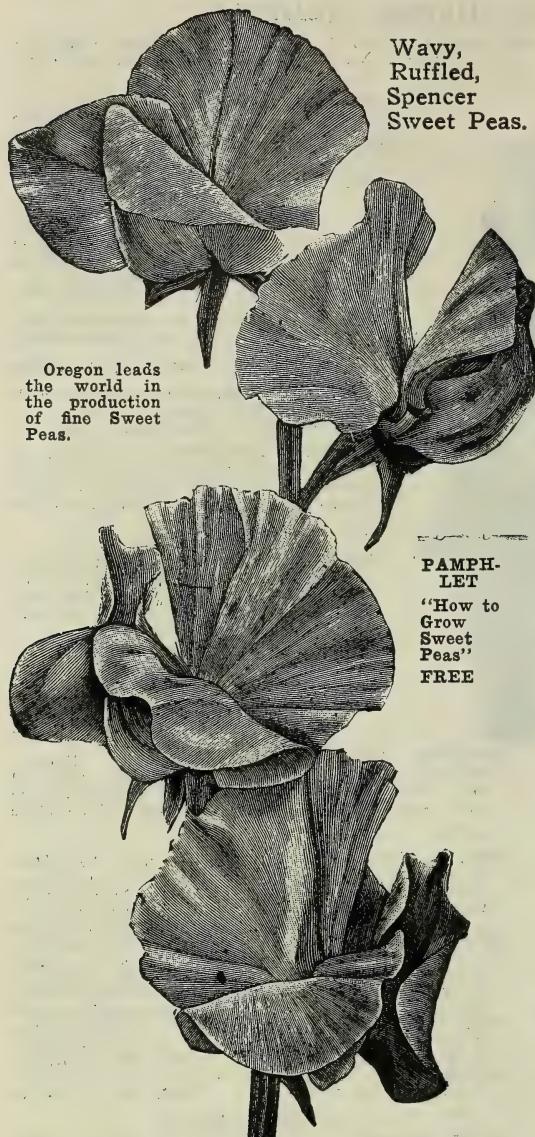
Pkt. 25c; 3 for 60c

PRINCE OF ASTURIAS.—A grand, extra large flower of excellent form; deep dark red; very rich; a profuse bloomer.

Pkt. 15c; ½ oz. 35c

OTHELLO SPENCER.—The stems are strong and long, with three or four fine, very large blooms of a rich deep maroon.

Pkt. 10c; oz. 25c



Wavy,
Ruffled,
Spencer
Sweet Peas.

Oregon leads
the world in
the production
of fine Sweet
Peas.

PAMPH-
LET
"How to
Grow
Sweet
Peas"
FREE

New Giant Spencer Sweet Peas—Continued

Lavender

MASTERPIECE.—A very fine lavender, absolutely true and fixed. On account of its reliability it has been placed at the top of the lavenders by the N. S. P. S. **Pkt. 20c; 3 for 50c**

FLORENCE NIGHTINGALE.—Burpee's new lavender introduction, but we do not think it equal to others under this heading. Mammoth flowers on long stems; free flowering. **Pkt. 15c; ½ oz. 35c**

ASTA OHN SPENCER.—Color a beautiful lavender; flowers large, wavy and generally come four blossoms to the stem. We offer a very select strain. **Pkt. 10c; oz. 35c**

Blue

CAPTAIN OF THE BLUES, SPENCER.—Standard, clear purple, wings blue; a bright striking color. **Pkt. 10c; oz. 35c**

FLORA NORTON SPENCER.—A beautiful shade of bright blue; very desirable. **Pkt. 10c; ½-oz. 20c**

MRS. G. CHARLES.—A new shade of deep blue. Large wavy flowers of excellent form. **Pkt. 25c; ½ oz. 50c**

ROSIE ADAMS.—New, peacock blue, a color that has long been wanted; try it. **Pkt. 15c; ½ oz. 30c**

Distinct—Shaded—Marked

ELSIE HERBERT.—Large, creamy white with a pink edge; very dainty and distinct. Recognized by N. S. P. S. **Pkt. 15c; ½-oz. 40c**

PICOTEE.—A lovely new and distinct "Spencer." Flowers white, beautifully edged carmine, large and well waved. Flowers are borne three and four on a stem, well placed and of grand substance. Will be in great demand both as an exhibition and florist's variety. **Pkt. 10c; oz. 35c**

SENATOR SPENCER.—Claret and chocolate stripe, on light ground, large and most distinct, much admired; a profuse bloomer. **Pkt. 10c; ½-oz. 25c**

MRS. WILCOX.—Bright and attractive; white, striped bright red; the best wavy specimen in this color. **Pkt. 15c; ½-oz. 35c**

RAMONA SPENCER.—Very attractive, clear white, with soft, delicate lines and flakes of blush pink. **Pkt. 15c; ½-oz. 35c**

Orange

THOS. STEPHENSON.—Recognized by the N. S. P. S. as the best orange. Flowers are very beautiful, extra large; come 3 and 4 to the stem. **Pkt. 25c**

AUDRY CRIER.—A beautiful new English sort of the finest Spencer type. Color rich salmon, pink edged with orange. Very distinct in color from all other sorts. A true giant flower with stems and growth to match. **Pkt. 10c; ½-oz. 25c**

HELEN LEWIS SPENCER.—The orange-rose wings roll and fold; the standard is reflexed, showing the distinctly fluted effect, and it is of an intense rich crimson-orange. Very popular variety. **Pkt. 10c; oz. 30c**

"Unique Collection" of the "Unwin" Type

Large, wavy, strong growing, free flowering sweet peas, often put in the Spencer class, but they are a "distinct race." Larger and finer than the grandiflora, but not quite equal to the Giant Spencers. **PRICE ANY VARIETY; Pkt. 5c; oz. 15c; 4 oz. 50c. SPECIAL: 1 pkt. each of the following (8 kinds) only 30c; 1 oz. each 75c.**

Mrs. Unwin.—Pure white and large in size; exquisitely crinkled, wavy petals, three or more flowers to the stem.

Phyllis Unwin.—Long stems carry three and four flowers each; of a beautiful rose color throughout.

Mrs. Alfred Watkins.—A clear pink color which is suffused over the entire flower, but rather deeper and heavier at the outer edges.

Frank Dolby.—A lovely light lavender; bold, wavy standard and widely spreading wings, beautifully fluted.

Gladys Unwin.—A bold flower with striking upright standard which is crinkled and waved; broad wings. Of a lovely light pink color.

St. George.—An English introduction; vigorous grower and wonderfully profuse in flowering. Magnificent large flowers; beautiful and brilliant; rich orange shade.

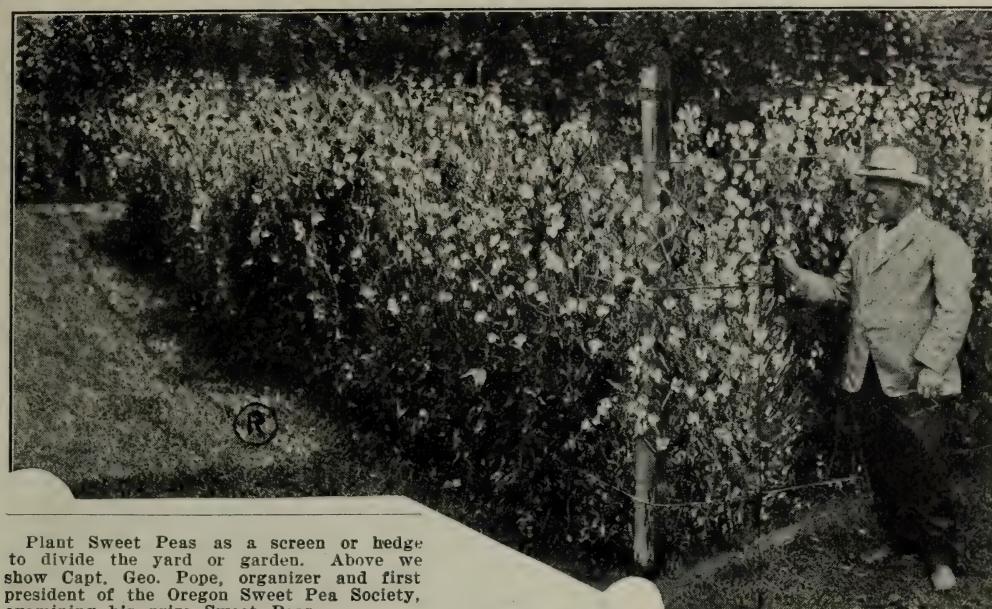
Unique.—The large broadly expanded flowers are delicately flaked with lavender on a white ground.

Rose Du Barri.—A lovely combination of deep, rich carmine-rose and orange. Not of Spencer form or size, yet it is slightly waved and for boutonnieres or table decoration it is "really a gem." Its brilliant beauty must appeal to every lover of esthetic shades.

R. R.'S Superb Mixture New Giant Spencers

This is our own special mixture and is composed only of the best giant orchid-flowered wavy Spencer types, also contain some new seedlings that have not as yet been named. For healthy, robust growth, wealth of blooms, size of flowers and exquisite and rare colorings, this mixture is unequalled.

Put up and for sale in sealed packages only, ½-oz. pkts., 15c; oz. pkts., 25c each; 3 for 60c; 8 for \$1.00



Plant Sweet Peas as a screen or hedge to divide the yard or garden. Above we show Capt. Geo. Pope, organizer and first president of the Oregon Sweet Pea Society, examining his prize Sweet Peas.

Popular and Best Grandiflora Sweet Peas.

Aside from the preceding varieties, these are the "cream" of over 100 named varieties
Prices: Your selection, pkt. 5c, 7 pkts. for 25c; oz. 10c, 7 one-oz. pkts. 50c; $\frac{1}{4}$ -lb.
25c; lb. 75c.

WHITE.

Dorothy Eckford.—A good white of the largest and best grandiflora type. A free bloomer.

PRIMROSE.

Mrs. Collier.—A rich primrose tint, entirely free from any trace of pink.

BLUSH PINK.

Lovely.—Beautiful shades of soft shell pink, changing to very light rose at the outer edges.

PINK.

Janet Scott.—Clear pink at the base and shading to buff at the edges.

Paradise.—A most charming flower; a fresh, delicate pink, with edges of a deeper shade of pink.

ROSE.

John Ingman.—A rich carmine-rose in the standard, with wings of a deep rosy pink. The flowers are large and come generally four to a spray.

RED-SCARLET.

King Edward VII.—Large flowers of open form, bright crimson-scarlet. Long stems; fine flowers.

Othello (Improved Black Knight).—Very dark red, shaded almost black.

ORANGE.

Henry Eckford.—The flowers are self-colored, in a bright, soft flaming orange, deepening slightly in the center. Large and beautiful.

Miss Willmott.—A bright orange-pink, showing veins of a deeper tint.

PINK AND WHITE.

Blanche Ferry.—Bright rose standard with white wings.

BLUE AND WHITE.

Lottie Eckford.—Large silvery-white flowers, beautifully shaded and edged with soft lavender.

Maid of Honor.—The flowers are beautifully shaded with light blue on a white ground and edged with narrow border of deep rich violet; very dainty.

STRIPED AND MOTTLED.

America.—Heavily striped with bright red on silver white ground.

Aurora.—Both standard and wings beautifully flaked with bright orange-salmon on a creamy white ground.

Helen Pierce.—Color pure white, peppered or mottled with bright blue, the veins showing a little deeper. The effect is very fine especially when bunched by itself.

Prince Olaf.—The bold, effective flowers are striped and mottled bright blue on white ground; of good size, the large, beautiful flowers are borne frequently four to the stem.

LAVENDER.

Lady Grisel Hamilton.—A grand, pale lavender. Planted extensively by florists for the best lavender.

BLUE.

Lord Nelson (Brilliant Blue).—Very large, slightly hooded, the most desirable blue.

R. R.'s Superb Spencer Mixed

A special mixture see page 60.

Double Mixed

These generally bloom about 50 per cent double flowers. Pkt. 10c; oz. 20c

Winter Flowering (Forcing)

For florists' use for forcing in greenhouses for winter flowers.

Following varieties all 10c Pkt. Oz. $\frac{1}{4}$ -Lb.

Christmas White.—Early white \$0.25 \$0.75

Christmas Pink.—Pink and white25 .75

Mrs. F. J. Dolansky.—Light pink40 1.50

Mrs. Wm. Sims.—Salmon pink40 1.50

Mrs. A. Wallace.—Lavender40 1.50

Make up your own collection of Sweet Peas. Select \$1.25 worth in pkts. or ozs. for \$1.00 cash. In other words, 25c worth free with every dollar's worth.

ROUTLEDGE SEED AND FLORAL CO'S NEW AND POPULAR DAHLIAS



GEISHA

profusion of bloom, we make our selection for growing the following year. We never discard a standard variety until we find a better one, all points considered. Therefore, you are assured of the very best if you select and buy from us.

Holland Peony Dahlias

These produce long-stemmed, large, handsome, single and semi-double, many petaled, showy flowers, many of which are of the most odd and fantastic shapes (see cut above). Peony flowered dahlias are generally the most profuse bloomers. This class is one of the later introductions, but has quickly sprung into popular favor and is much admired. The Holland growers seem to be leading in the introduction of new and improved types in this class.

1912 AND 1913 PEONY DAHLIAS.

Our Holland dahlia specialist has sent us the following new introductions, which we offer in pot-grown plants for this season. If you want to be "up-to-date," in fact about three years ahead of the average American grower, buy this collection this year.

America—(1913)

This new peony-flowered Dahlia will be offered in "plants only" in Holland and Great Britain for first time this year. The introducer claims it is of superior merit in shape, color and size, a pleasing combination of apricot and orange, very attractive and very rare. Given first-class certificate at Amsterdam and Haarlem, fall 1912. We were fortunate in securing a few roots from which we can sell a very few plants this spring. Price, \$3.00 each.

Great Britain—(1913)

What is said above of America is also true of this sterling new novelty excepting that "Great Britain" is a beautiful clear mauve and mammoth in size. The largest of all. A few plants only to offer at \$3.00 each.

SPECIAL—1 plant each America and Great Britain, only \$5.00 postpaid.

NEW 1912 GIANT SINGLE FLOWERED DAHLIAS.

ANMUTH.—Large single flowers of dainty rose or pink, unusually free blooming, of splendid carriage and long stem. **Each 75c**

FEGLI.—New, giant single flower on long, strong stems. Carmine with a large spot of pure white on each broad, flat petal; very showy and distinct. Excellent for cutting or yard display. **Each 75c**

DAHLIA PLANTS.—Dahlia plants bloom the first season and produce more and better flowers than bulbs, but require more careful handling.

We are the largest growers of new and up-to-date Dahlias in the Northwest.

All Dahlia Bulbs delivered free anywhere in United States.

No doubt many of our customers will remember the beautiful displays of cut flowers we made in this city last fall. Also our large growing exhibit at the State Fair at Salem, Ore., where we had a most magnificent display which was made for the purpose of showing the new and up-to-date varieties and how easily they are grown out of doors.

Each year we test out, in our dahlia fields where we have daily and ample opportunity for comparison, a hundred or more new and late introductions along with the standard varieties. After paying careful attention flowers, the length and strength of flower stem, and to the growth of plant, perfection and color of the

profusion of bloom, we make our selection for growing the following year. We never discard a standard

variety until we find a better one, all points considered. Therefore, you are assured of the very best if you select and buy from us.

Hortulanus Fiet—(1912)

A new color in peony dahlias and of mammoth size. Rich salmon shading to yellow in center. Given first-class certificate at Amsterdam and Award of Merit Haarlem in September, 1912. We offer it in America for first time this year. Plants only \$1.50 each.

Zeppelin—(1912)

A new beautiful lilac. Given Award of Merit Amsterdam, Holland, September, 1912. Offered in America for first time this year. Plants only \$1.50 each.

Hortulunus Budde—(1912)

A new scarlet peony-flowered dahlia claimed by our Holland grower to be the "best ever." Given Award of Merit Amsterdam, September, 1912. Offered in America for the first time this year. Plants only \$1.50 each.

ROTGOLD.—Flowers large, shining red, centered with a broad, bright yellow zone which contrasts very nicely. Large, single flowers well poised on strong, long stems. **Each 75c**

SPECIAL—One bulb each of the three in this collection only \$1.50; the entire collection of eight on this page, only \$9.50.

New & Up-to-date Peony Dahlias

Special.—One each following 18 varieties (value \$8.50) postpaid, only \$6.00, or you can select a collection of \$2.40 for \$2.00, \$3.60 for \$3.00, etc.; in other words, 20c extra free (on any Dahlias); with each \$1.00 order, collection prices excepted.

Geisha—(1909. See cut, page 62.)

Has created a sensation at every display we have made. Its large, fantastic and beautiful flowers pleased everyone. Geisha is probably now the most popular and showy peony dahlia to date. The color of Geisha is unique, being a rich, bright golden yellow, suffused with clear bright red, shading toward points of petals into the clear yellow; a beautiful deep golden center adds to the harmony of the color scheme which is the most striking and brilliant ever seen in a Dahlia. The immense flowers often attain a width of 10 to 12 inches, and the massive petals, more than in any other peony type, are twisted and curled in the most fantastic manner. Geisha is a sure grower and free bloomer even in the driest weather.

Each 60c

Madame Jeanne Martin—(1911)

This new French novelty is most attractive; the large flowers are semi-double (full petalled) and quite distinct. Ground color yellow, striped and splashed garnet red. The red of the individual flowers varies greatly on the same plant, making it most interesting.

Each \$1.00

PURE WHITE

SNOW QUEEN (Sneeuwvitje).—A beautiful pure white; full twisted petals; stiff stems. Each 30c

QUEEN WILHELMINA.—Pure white; flat petals; free bloomer.

Each 35c

WHITE, SHADED

ALICE ROOSEVELT (1911).—Beautiful well formed full flowers; color white, shaded lilac. Very desirable and new.

Each 60c

DR. K. W. VAN GORKOM.—Magnificent large blooms, white, softly shaded rose. Very free-blooming.

Each 60c

QUEEN ALEXANDRA.—Bears elegant flowers of sulphur and white. Fine form.

Each 35c

H. J. LOVINK (1911).—A grand large flower, white shaded lilac. Excellent.

Each 60c

CREAM OR YELLOW

KING LEOPOLD.—Color varying from cream-yellow to white; flowers flat petalled, on long stiff stems.

Each 35c

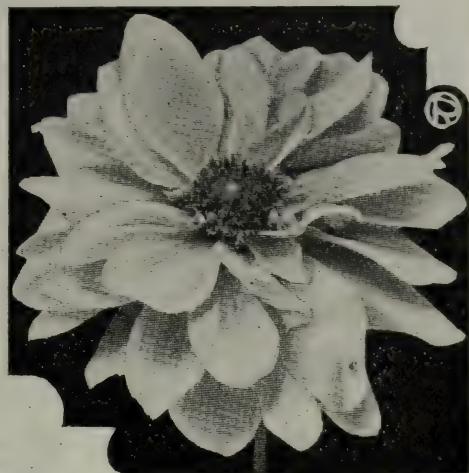
CAESAR (F. C. C. 1911).—The best yellow. Grand flowers, full and fantastic, stiff stems (see cut).

Each 60c

PINK

QUEEN EMMA.—First-class flower, irregular ranges of petals; strong stems and giant flowers of rosy pink, showing shade of yellow to the center; long stiff stems. Bright and most desirable.

Each 35c



Caesar—Peony Flowered.

ANDREW CARNEGIE (F. C. C.).—Color salmon-pink, with bronze shadings; the form is most unique, resembling a giant sunflower.

Each 50c

ORANGE AND SALMON

BERTHA VON SUTTNER (F. C. C. 1908).—Color beautiful salmon-pink, shaded yellow; the flowers very large and full to the center; of elegant form and carried erect on strong stems; much admired.

Each 50c

GLORY OF GROENEKAN.—Orange-yellow; extra large flower.

Each 35c

P. W. JANSEN.—Old rose and salmon-bronze, with dash of yellow to the center. Excellent stems and flowers. Free bloomer. Fine for cutting.

Each 35c

HUGO DE VRIES.—Orange, buff and bronze, a rich and rare color; petals rather flat, but long and oddly shaped; fantastic; stiff stem that holds the flower upright.

Each 35c

RED

GERMANIA.—Bright glowing crimson, the best in this color. Fine for cutting.

Each 35c

KING EDWARD.—Large flower, purple crimson; quite distinct.

Each 40c

New Cactus Dahlias

1912 German Novelties

SPECIAL.—Collection of 5, only \$3.50. We admire the new German introductions very much. While the flowers are not as large as some, they are of perfect form and produced on long straight stems, making them ideal for bouquets.

AUSTRIA.—Flowers are of fine form, pale bronze with yellow. One of the finest of this shade. Free bloomer and has very good stems.

Each \$1.00

MONDLICHT (Moonlight).—Flower dainty sulphur yellow on long stems. Little lighter toward the points. Good form and splendid carriage on good, strong stems. Excellent for cutting.

Each \$1.00

ORIENT.—Fine shaped flowers. Very dark brown red. Good long stems. One of the best for decorative purposes.

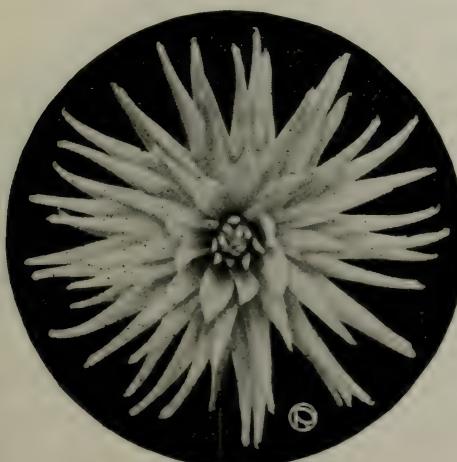
Each \$1.00

PAPRIKA.—Enormous, free bloomer of good form, shining scarlet; flowers produced in such immense quantities as to make the bush appear to be a bush of fire. Very showy.

Each \$1.00

SILBERSTERN.—Good firm flower of cream white, unusually long stems, carried well above the foliage. Very free blooming, splendid for cutting and decoration.

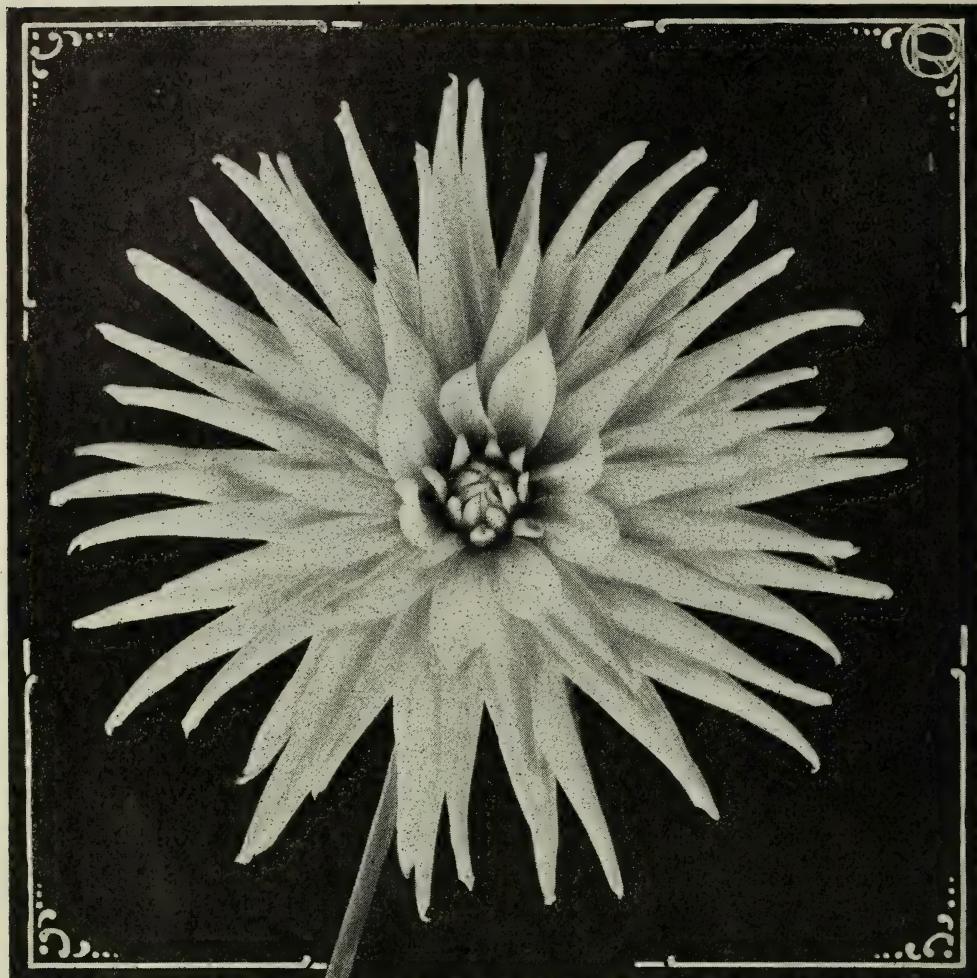
Each 75c



Mondlicht (Moonlight).

Our booklet, *The Growing and Cultivating of Dahlias*, sent free with every order. Plant more Dahlias. They bloom when other flowers are scarce.

Plant More of the Beautiful Dahlias.



Monsieur Rodger Leclerc.

Chantecler Collection New Cactus Dahlias

Special.—Full collection of 10 varieties (value \$8.10) special for only \$6.50. The following varieties are very beautiful and you will not be disappointed in a single one.

CHANTECLER.—A large, handsome, rose-colored flower of excellent form and type. Very desirable. Each \$1.00

CONSTANTIN.—A beautiful large flower of Loyalty type; with curving twisting petals. A most pleasing rosy red; free blooming. Each \$1.00

GOLDREGEN.—This is by far the best pure yellow cactus dahlia to date. The large handsome flowers are perfect in form and held erect on long stiff stems. Petals are long and somewhat rolled, not very pointed. An ideal yellow. Each 60c

IVERNIA.—A recent introduction of great merit. Strong, healthy grower. Flowers of largest size with long narrow incurving petals; color salmon pink. An exhibition flower and highly praised by all who saw it growing last fall. Each \$1.00

MADEMOISELLE CAZALIS (see cut on cover page).—A grand new pure white, with long flat pointed petals. Flower perfect in form, large and very full to the center. A profuse bloomer and the best for cutting on account of its long, strong stems. By far the best white cactus to date. Each \$1.00

MONSIEUR ROGER LECLERC.—(See cut)—One of the most beautiful new novelties we tested this

year. Flowers are extra large of exquisite form, long petals slightly incurving; stems strong and hold the flower upright. A charming primrose shading to pure white at petal points. Superb. Each \$1.25

MONSIEUR CAZALIS.—Fine long, strong stem; beautiful flowers. White, overlaid with violet rose, producing a lavender shade. Much better than Brillantilla. Each 75c

MRS. FERDINAND JEFFRIES.—Probably the largest Cactus Dahlia ever grown, often measuring over eight inches in diameter. In formation the flower is irregular, its long petals are curved and twisted, giving the flower a shaggy appearance. Color deep velvety red. Each 75c

VILLA DE LYON.—(See cut)—A magnificent large flower of superb texture and strength. Petals straight and pointed, rather broad at center of flower. The color is charming; a rich rose, center petals which are shorter are almost pure white. Another of our introductions of sterling merit. Each \$1.00

YVONNE MAUMONT.—Odd and fantastic; petals long and twisted; incurving. Flowers large; orange overlaid red; distinct. Each 75c

Cactus Dahlias, French & German Novelties of 1911

These are all beautiful and distinct new varieties, selected from our late importations, and will please the most critical.

Special.—Full collection of 16 (value \$8.75) special only \$6.00. Any six, your selection for \$3.00.

ABBE BRASSIER.—Beautiful flowers, rosy pink and yellow, showing some darker veins or lines; free flowering. Each 60c

APRIKOSE.—A beautiful and profuse bloomer and most desirable color. Apricot or golden yellow overlaid orange. Fine form and good stem. Each 40c

CHARLOTTE.—Amber color, unusually free bloomer, a favorite shade. Each 60c

DEPUTE VIARD.—Very free flowering; flowers excellent form, medium size, bright red. Each 60c

EXCENTRIQUE.—A very decided and distinct flower of medium size and peculiar shaped, straight, reflexing petals. Color violet red, margined pure white. Flowers vary in markings and color. Each 60c

GRANATE.—Shining orange-red of splendid shape, carried well above the foliage on very good strong stems. Free blooming and unusually desirable. Each 60c

HORTENSIA.—A beautiful lavender or light blue, lighter toward the center, nearly white. Flowers large, petals finely twisted almost to a point. Very desirable. Each 40c

IRWISH.—Beautiful, peculiar color which can be best compared with a rosy peach, a shade very much sought. The flowers are carried well above the foliage. Free bloomer. Each 60c

MADAME GARDE.—Genteel flowers of perfect shape and form; rose striped purple, light center; distinct and pleasing. Each 60c

MELITTA.—Light apricot of regular water-lily shape. Very dainty and desirable for bouquets. Each 50c

MINERVA.—Magenta rose in color, unusually early and free bloomer. Very substantial, not being hurt by rain. Grows in compact bush. Each 50c

MONSIEUR BARAT.—A large and beautiful flower; color, white, striped and lined purple and violet, making it very showy and attractive. Each 40c

MONSIEUR DEESE.—Very free blooming; large perfect flowers of a rosy violet. Each 60c

MONSIEUR FOREY.—A very beautiful new French Cactus; flowers rich violet. Each 40c

MONSIEUR GILLET.—Very desirable; well shaped orange flowers on good stems. Each 75c

VAUCOULEURS.—A very beautiful variety; flowers white. Each 60c

Cactus Dahlias of Real Merit

Aside from the novelties offered above and on the preceding pages the following are "par excellent"—every one a "real gem." Th best list of moderate priced dahlias offered in the United States.

Special.—Remember, you can select \$1.20 worth for \$1.00, \$2.40 for \$2.00, etc.

WHITE

Fairy.—Pure white, very narrow, long, narrowing and twisting petals; beautiful form; the most refined of this color. Each 25c

Lawine.—White; large size; early and free, with strong stems, holding the flower erect. Each 25c

NIAGARA.—Pure white, straight, pointed petals. Perfect flowers, excellent for cutting. Each 50c

PINK

Borneman's Liebling.—The extra large and beautiful clear pink flowers, good stems and profusion of blooms makes this German introduction very popular. Each 35c

Frau Hermina Marx.—Abundant bloomer. Flowers of fine form; charming pink, slightly changing to flesh color in the center. Each 25c

GONDOLA.—A clear rosy pink, with very large, gracefully arranged flowers, with long, narrow, peculiarly twisted petals. Each 50c

Kriemhilde.—Color delicate pink, shading to white in the center; a most decorative variety for cutting; lasts well when cut. Each 20c; dozen \$2.00

RUTH FORBES.—The massive clear pink flowers composed of heavy petals are often accompanied by stems measuring 3 feet in length; extra stout, and excel any other variety for large vase purposes. Each 40c

YELLOW

ARMIGO.—Lovely large flower with long incurved petals; color clear chrome yellow; a magnificent exhibition flower; late bloomer. Each 50c

Stern.—A beautiful flat-petaled, star-shaped flower of pure lemon-yellow; free flowering. Each 30c

RED SHADES

CARDINAL KING.—A brilliant, rich cardinal red; flowers of perfect form and exceptionally large; a grand exhibition variety. Each 50c

CORDOVE.—Large, beautiful, incurving flowers of a most desirable red. Good strong stems. Each \$1.00

Emperor.—Plum color; quite velvety. Each 30c

Loyalty.—Petals claw-like, fluted, incurving; fantastic; bright coral-red. Each 35c

MADAME CHAMPIN.—A deep rich red of most desirable form and type. Good stem, fine flower, profuse bloomer. Each 70c

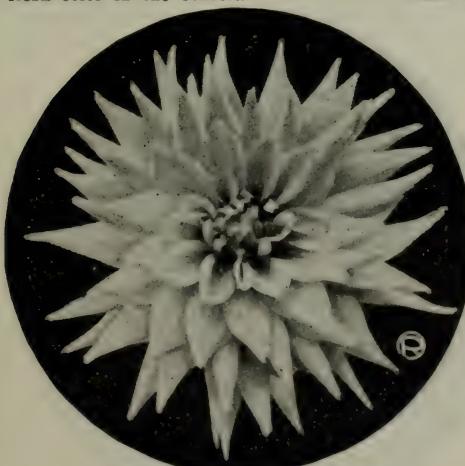
MADAME VARVIER.—Flamboyant red. Colors distinct. Each 50c

NELSON.—Distinct flowers; large and very freely produced on long stems; petals extra long, very narrow and curling in a most elegant manner; color rich crimson, shading to magenta. Each 50c

Rother.—Long pointed petals; rich, bright garnet color. Each 30c

Staghorn.—Bright carmine, the petals being furcated on the end; odd and fantastic. Each 30c

Uncle Tom.—Free bloomer; deep crimson, almost black; petal rather flat and pointed. Each 20c



Villa De Lyon (see page 64).

Note.—Dahlias should be planted in the spring. Bulb ready after February 1st. Dahlia plants after April 1st. Booklet, How to Plant and Grow Dahlias, free with each order.

Cactus Dahlias of Real Merit—Continued

SHADED COLORS

Aurora.—Large in size; elegant in form; most perfect in type, and of the most exquisite coloring; attractive soft pink, slightly tipped white; the heart of the flower brilliant golden. Each 25c

BERENICE.—Attractive and distinct. Orange crimson in color, edged and margined pure white. The pointed petals are peculiarly cut. Each 60c

Countess of Lonsdale.—For perfection of bloom, size and erectness of stem, abundance of flowers and general use as a garden flower, although quite old, this variety has never been excelled. The color is a rich salmon, tinted apricot. Each 20c; dozen \$2.00

Columbia.—Bright vermillion; petals incurving and tip of each pure white; attractive. Each 20c

Effective.—Chamois rose, with yellow shadings; pointed petals; very distinct; flowers freely. Each 25c

FEERIE.—Violet red, striped pure white. Very charming and a free-flowering, long-stemmed variety. Each 75c

FLEURISTE BIZET.—Very distinct and charming; Points of petals cut. Color white shaded and edged rosy carmine. Very dainty and desirable. Each \$1.00

MADAME J. B. PLUMET.—A beautiful rose shading to a white center. Each 60c

Master Carl.—Gigantic flowers of perfect form and bright amber color. Stems rather short. Each 30c

MISS FANNY FOSTER.—Dainty pretty flowers; white bordered lavender and red. Each 50c

MIRIFIQUE.—Fine Cactus Dahlia, wine color, center tipped white, covered with violet lilac. Color distinct. Under special culture the flowers grow from 6 to 7 inches in diameter. Splendid for exhibition. Each 60c

Miss Dorothy Olliver.—Pale primrose; large flower; pointed petals. Each 35c

Modern.—Color deep yellow, flower full, medium size, flat at the base with pointed tips. Each 30c

MODELL.—This is truly a model Dahlia with a coloring all its own. A beautiful clear yellow, with a delicate plum blush sheen over tips of petals; a dainty, lovely flower of large size, perfect form, petals incurving, erect on long stems; one of the best bloomers and most vigorous growers ever produced. Modell will please you. Each 50c

Prince of Orange.—A remarkable combination of old gold, orange and yellow; a large, perfect flower; stiff stems; free bloomer. Each 30c

SOUVENIR DE JUSSERAND.—New lilac rose striped light carmine. Each 50c

Show Dahlias—Quilled

Very beautiful and desirable. Excellent for cutting. Stand handling and shipping well. In shape they are rather round or ball-shaped, and the petals are quilled (see illustration below).

GRAND DUKE COLLECTION, SIX FOR ONLY \$2.25.

W. W. RAWSON (See Cut).—The massive, perfect but graceful flowers are borne on long, stiff, erect stems. The petals toward the center are quilled similar to Grand Duke Alexis, toward the outer part they are more open and flat. The color is pure white, overlaid with amethyst-blue; this wonderful combination gives it the appearance of a delicate lavender. Lasts well cut and one of the most desirable in the entire "show" class. Try it. Each 60c.

YELLOW DUKE.—A show variety, similar in form to the popular Grand Duke Alexis, but with far better stem. Color, clear bright yellow. Each 60c

L'INNOCENCE (See Cut).—This is certainly the most beautiful pure white show or quilled Dahlia to date. Flowers are extra large, nicely formed and

almost ball-shaped; long, strong stems and a profuse bloomer. Excellent for cutting. Each 75c

GRAND DUKE ALEXIS.—This is not a new variety, but still holds its own among the newer introductions. It is a grand, large flower and always scarce on the market on account of the large demand. Color, ivory white, lightly tinged rosy lavender on edge of petals. Each 35c

DREER'S WHITE.—A pure, glistening white, resembling in form the popular Grand Duke Alexis. Free flowering and most valuable for cutting and show. Each 25c

MRS. ROOSEVELT.—A most beautiful flower. It is of immense size, fine color, graceful form and has excellent stems for cutting; the flowers are perfectly double, 6 to 8 inches in diameter and of a most delicate pink. Each 35c

GOLD MEDAL COLLECTION, TEN FOR ONLY \$1.85.

WHITE

Glorie de Lyon.—Very large, pure white; this really is one of the finest white we have seen. Each 30c

PINK

A. D. Livoni.—A beautiful, clear pink; very free flowering; fine for cutting. Each 15c

Fascination.—Rosy pink, free flowering, very large and desirable. Each 20c

YELLOW

Thomas Pendred.—Clear yellow; this is without doubt the finest yellow show dahlia ever offered. Each 30c

RED

Diadem.—Very large, quilled flowers of fine form on long stems; a beautiful rich crimson. Each 30c

Willie Garrett.—Bright rich red; fine flower. 20c

SHADED AND VARIEGATED

Gold Medal.—Yellow, deeply edged scarlet; free, flowers very attractive. Each 25c

W. P. Laird.—Lilac, veined darker; very fine form; odd color. Each 20c

Lucy Fawcett.—Sulphur-yellow, flaked crimson. 20c

Henry Clark.—Pure lilac, edged and penciled with a deeper shade, and irregularly blotched with clear yellow; coloring is unique. Each 25c



W. W. Rawson (about ½ size)

We discarded five years ago many inferior varieties still found in catalogs and price lists of many growers claiming to be "Dahlia Specialists." Draw your own conclusions.

1912 Collection New Decorative Dahlias

The following new introductions are mammoth in size, rich in colors and so attractive they caused quite a sensation when shown last fall.

Special.—Full collection of nine (value \$7.00), special \$5.00.

REVE D'OR.—Magnificent new color, flaming red, yellow and copper; a superb flower, profuse bloomer and much admired by those who have seen it. Medal, Paris, 1910. **Each \$1.00**

MME. JEANNE CHANTRE.—A grand new flower, rich pink or bright rose, shading to a creamy white. Grand, showy and pleasing flowers on strong stems. Of special merit. Given first-class certificate, Lyons, France. **Each \$1.25**

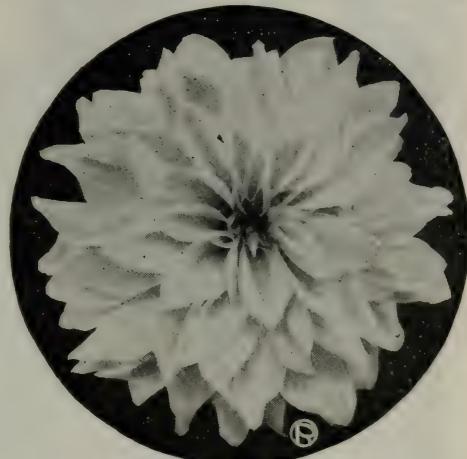
MONSIEUR CAPRON.—A grand flower, amaranthe or crimson, each petal delicately edged pure white. A distinctive and most desirable color. The reflexing petals are even and well placed; flowers of extra good size. **Each \$1.00**

PRINCESS JULIANNE (See Cut).—Award of Merit, Amsterdam; Award of Merit, R. H. S. London, 1910. A grand new decorative, creating great attraction everywhere shown. Flower large, full, pure white, perfect shape, stands erect on long stiff stems and lasts for days. Our stock was the first to come to the United States and we now have a good supply of bulbs. **Each \$1.00**

DELICE (New).—Its beautiful soft, yet lively color, a glowing, rich pink, together with its perfect shape, stout, stiff stems, which hold the flowers well above the foliage, and the fact that when cut it retains its freshness for a long time, makes this one of the most valuable for cutting or decorative sorts in the garden. **Each 60c**

MANITOU.—Decorative. Its flowers are uniformly even in outline and always full to the center. Immense size—often eight inches in diameter. The color is pleasing and attractive, being a pure, rich yellow suffused deep pink or rose; stems rather short. **Each 40c**

MEADOW GOLD (1912).—A new decorative of merit. Flowers large and produced in great profusion from early to late. Good growers and strong stems. Should be disbudded to secure the mammoth flowers. Primrose yellow, tinged delicate pink. **75c**



Princess Julianne.

GAIETY.—A superb new vivid scarlet, heavily marked with pure white. It is a variety far above the average of the fancy type. It proved an excellent cut flower variety during the past season. Stems are long and flowers are produced freely. **Each 40c**

WODAN.—Decorative. Bold, large, but not coarse flower, frequently 7 inches in diameter; a graceful arrangement of semi-incurved tubular petals of a pleasing, delicate salmon-rose color, shading to old gold in the center. Profuse bloomer. **Each 60c**

NAVAJO COLLECTION DECORATIVE DAHLIAS, TEN FOR \$2.00.

CORONA (New).—(The Carnation Dahlia). A miniature, decorative form, fully double and of purest white. Profuse bloomer. At a little distance it would be pronounced carnation, which it resembles both in size and form. **Each 35c**

Jack Rose.—A grand variety, splendid for cutting; flowers are full and large; color of the Jacqueline rose, a rich, velvety crimson. **Each 30c**

Kaiserin Augusta Victoria.—The perfect pure white flowers are borne in great profusion on most erect, stout stems, all above the foliage. **Each 30c**

Miss Francis Fell.—Pure white; the blooms being large, are grand for exhibition and are always full and good in the center. (See cut.) **Each 25c**

Mrs. Winter.—Well known one of the best white in this class for cutting; pure white. **Each 20c**

Mme. Van Den Dael.—A splendid, large, decorative variety for cutting; color soft rose, with deeper markings, shading to creamy white. **Each 20c**

Navajo.—For richness of color this Dahlia has no equal. Its bold, rich flowers are a most intense velvety red. **Each 25c; dozen \$2.50**

Norma.—Bright orange; one of the best grown; extra fine shape. **Each 25c**

Prof Mansfield.—A very large decorative type, very showy. The color is a rich yellow with clear white tips, and a slight marking of rosy-red toward the center. **Each 40c**

SOUVENIR DE GUSTAVE DOAZON.—The immense flowers are borne in profusion; color a rich scarlet, Disbud to secure "Mammoth" 9 or 10-inch flowers. **Each 25c; dozen \$2.50**

New Dwarf Mignon Dahlias

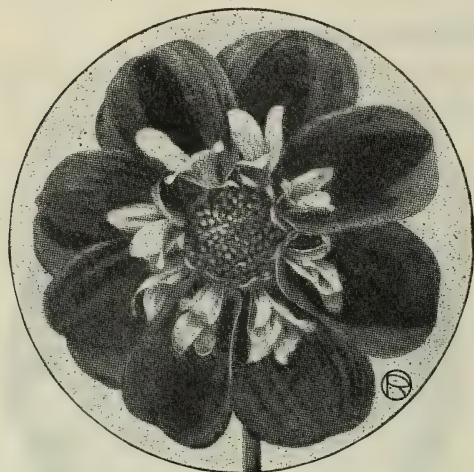
New and Distinct Class. (Awarded five F. C. C. and five Awards of Merit, Amsterdam, 1910.)

This valuable novelty is an entirely new strain among the species of Dahlias. Its free flowering and very dwarf, compact habit (15 inches) makes it one of the most desirable bedding plants. Mignon Dahlias produce from June until frosts well-formed, long-stemmed single flowers of medium size and magnificent colors. Excellent for mass planting or cutting for vases or decorating. Fine stems and last well in water. Try these this year in place of Geraniums.

White, Yellow, Scarlet, Orange or Maroon, each 25c; dozen \$2.50.

Miss Francis Fell.

Note.—Try and remember to visit our Dahlia fields when in bloom next fall and make notes of those you like.



French Collerette Dahlias.

CANNAS

Such great improvements have been made in Cannas during the past few years that any one not posted would scarcely recognize them. They are now generally considered the most showy and effective bedding plants, and are of the easiest culture, requiring only good garden soil. They have tropical appearing foliage and large, showy flowers, some of which are truly orchid-like.

Plant canna roots early in the spring; just as soon as the ground gets warm. Plants can be planted as late as June 15th with success.

When you buy our plants, you will be sure of success. Plant any time in May or early June, 18 inches apart in beds of the deepest, richest soil you can give them. 19 plants required for a bed 7 feet across.

Prices

Strong roots or plants 20c each, \$2.00 dozen. Large potted plants, 15 to 18 inches high, 35c each, \$3.00 dozen. In case of shortage, we will substitute varieties of same color, unless otherwise instructed.

KING HUMBERT.—Its mammoth flowers are produced in heavy trusses of gigantic size, and are of a brilliant orange scarlet, while the foliage is broad and massive and of a rich, coppery bronze; bold and effective; has no equal; 5 to 6 feet.

MADAM CROZY.—Very showy and attractive; scarlet flowers, bordered with a band of pure yellow; green foliage; 3 feet.

PILLAR OF FIRE.—Enormous bright scarlet flowers, carried erect in large clusters, appearing like torches when effectively grouped in the center of a bed; height, 6 feet; foliage green.

TARRYTOWN.—A dwarf variety growing 3 feet high and carrying a massive truss of deep crimson flowers far above the foliage; a solid bed of these is incomparable in beauty.

DAHLIAS—Continued

New French Collerette Dahlias

An entirely distinct type, having a row of short petals around the disc, which form a frill or collar and which are of entirely different color from the rest of the flower. We offer four distinct novelties from France. (See cut.)

Price, each 50c; 4 for \$1.50

AMI NONIN.—Amarante shaded lilac rose; collerette white, tinted orange and rose; unique.

ALBERT MAUMENE.—Superb red, collerette rose.

IDEAL.—Cardinal red, collerette yellow and rose; very attractive.

M. MARTINET.—Very large, vermillion, shaded yellow at edges of large petals; collerette yellow; very distinct.

Spokane, Wash., May 30, 1912.

Routledge Seed & Floral Co.

Dear Sirs: Allow me to thank you for your promptness in making good the Geisha bulb which failed to grow and to say that whenever I may need anything in your line in the future, I shall be more than glad to order from a firm that is eminently fair in its dealings with even small customers. Yours truly,

A. E. REEVES, Attorney-at-Law.



Canna Plant, grown in Japanese tub, (from photograph)

BUTTERCUP.—A dwarf canna with true bright buttercup flowers, which are always a cheer to the eye; the foliage is broad vivid green, and this variety is splendidly adapted to edging bright or scarlet sorts; height, 3 feet.

BURBANK.—Of medium height (4½ feet); the semi-double yellow flowers of a rich canary shade are very attractively staged above a light green foliage.

Annual Flowering Plants. During April and May we have thousands of Flowering Plants for porch boxes, beds and borders. Prices on request.

ROUTLEDGE'S SUPERB GLADIOLI BULBS

No member of the floral family has made more rapid strides in development than the Gladiolus. The wonderful, beautiful, and large-flowered varieties of today are not to be compared to the small, insignificant varieties of a few years ago. Gladioli bulbs are good from year to year, and multiply quite rapidly, therefore are really not expensive, so buy the "best."

These new, large flowering Gladioli are simply grand. If you have not had an opportunity to see the new types, you cannot imagine how beautiful they are.

GLORY—A new ruffled type.

Has "distinctiveness" stamped all over it. It will not only revolutionize the family of garden Gladiolus, but will be one of the most important factors in commercial floriculture.

THE TYPE.—Distinctively new. Broad, expanded, wide, open flowers, paired by twos, face all the same direction and are carried on straight, stout stalks, never less than 3½ feet in height. From four to eight flowers are open at one time.

THE FORM..—Each petal is exquisitely ruffled and fluted at the edges, such as is only noticeable in orchids. It gives the flower a refined appearance, and it appeals instantly to the fancier.

THE COLOR..—Delicate cream pink, with a neat, attractive crimson stripe in the center of each lower petal. Greatly admired this last summer at our displays.

Each 20c; dozen \$2.00

AMERICA..—Without a rival. New and most desirable. A grand, large spike and flower; beautiful flesh color, considered the best pink to date.

Each 7c; dozen 75c; 100 \$5.50

AUGUSTA..—Pure white, blue anthers; a lovely and desirable variety.

Each 6c; dozen 60c; 100 \$4.00

ATTRACTION..—Deep, dark, rich crimson with a large, pure white center. Very attractive.

Each 10c; dozen 85c; 100 \$6.00

BLANCHE..—Large flowers, pure snow-white, with but faint marks.

Each 20c; dozen \$2.00

BLUE JAY (Baron Hulot)..—The finest blue Gladiolus yet seen. It is a rich deep color of indigo shade.

Each 20c; dozen \$2.00

BRENCHLEYENSIS..—Vermilion-scarlet; one of the most showy, satisfactory and cheapest.

Each 5c; dozen 50c; 100 \$3.00

CANARY BIRD..—Soft light yellow, long spike, large blossoms.

Each 15c; dozen \$1.25

CARDINAL..—A perfect spike and flower an intense cardinal red, very rich and showy, representing one of the finest varieties.

Each 15c; dozen \$1.50

LA MARCK..—Cherry, tinted with orange and blazed with red.

Each 5c; dozen 50c; 100 \$3.50

MAD. MONNERET..—A beautiful, delicate rose, large and a late bloomer.

Each 7c; dozen 75c; 100 \$5.00

MRS. FRANCIS KING..—One of the newer varieties of merit. Color of flower is a light scarlet of a pleasing shade, which attracts attention at once. Flowers are large and are borne on long spikes.

Each 7c; dozen 75c; 100 \$5.50

NIAGARA..—An entire new color in this class of flowers, to describe it intelligently one must imagine a shade of rich cream combined with canary yellow. The form and habit of this variety is exactly like America, except that the spike grows taller. The individual flowers are very large and borne in pairs opposite each other.

Each 35c; dozen \$3.50

SPECIAL.—For trial purposes we will mail one bulb each of the above varieties, (value \$2.25) each labeled, for only \$1.85; 3 of each, \$5.00.

Our Grand Mixed Gladioli

Our mixed Gladiolus are very fine indeed, being choice varieties only. All old and common ones have been discarded, and customers can depend upon having a large and magnificent variety of colors.

Mixtures Under Separate Colors.

These are very choice and absolutely true to color and contain many fine named varieties.

Doz. 100

WHITE AND LIGHT varieties..... \$0.65 \$4.00

SCARLET AND RED50 3.00

PINK and rose shades75 4.00

YELLOW AND ORANGE 1.00 7.00

STRIPED AND VARIEGATED75 5.00

Dozen price postpaid; 100 price by express, at your expense.

Don't compare our prices with the cheap mail order houses that send out little bulbs that will not flower the first year.



MICHELL

Gladioli Glory.

PINK AUGUSTA (New)..—Excellent for forcing or garden. Absolutely faultless and the most refreshing shade of pink, so desirable in cut flowers.

Each 10c; dozen \$1.00; 100 \$7.00

SULPHUR KING..—Beautiful, deep sulphur-yellow, fine and clear, without doubt this is the very best yellow variety to date, both in size, type and color.

Each 25c; dozen \$2.50

PRINCEPS..—The dazzling scarlet florets are immense in size and beauty. The slight marking on the lower the petal sets it off to great advantage.

Each 15c; dozen \$1.50

CHOICEST MIXED..—A mixture of named varieties and all sorts, giving in one bed the greatest range of colors and variations. A large per cent of Childsl. Great value. Large bulbs, per dozen 75c. postpaid; by express or freight 65c dozen; \$4.50 per 100.

POPULAR MIXTURE..—This mixture will produce a large variety of flowers at a little expense; unequalled for the price.

Per dozen, postpaid, 50c; by express or freight, 40c dozen; \$3.00 per 100.

TUBEROSES

One of the best-known and most easily grown summer flowering bulbs. Easily recognized by its exquisite fragrance and beautiful spikes of white flowers, which are borne on long stems, making it an admirable cut-flower for house decoration. If started in pots and then transplanted to open ground can be had much earlier. For flowering in the open border plant in April or May, or as soon as the ground becomes warm.

Excelsior Double Pearl.—Extra large bulbs,
Each 5c; dozen 50c; 100 \$3.50

Elbe, Wash., Sept. 25, 1912.

Routledge Floral Co., Portland, Ore.

Gentlemen: The bulbs you sent for our school window garden arrived in fine condition and we are well pleased with your selection.

Thanking you for your kind service, we remain—Yours truly,

PEARL E. ENGEL.

TIGRIDIAS

(Tiger, or Shell Flower.)

These are gorgeous, rare and unique summer-flowering bulbs that look well associated with Gladioli, Lilies and kindred stock; grow about 1½ feet high, and flower freely throughout the summer. They require the same treatment as Gladioli, and should be lifted in autumn and dried off in the same way.

Mixed.—Yellow, crimson, white, rose or spotted.
Each 5c; dozen 50c; per 100 \$3.50

Boring, Ore.,

Routledge Seed & Floral Co.

Gentlemen: I am so pleased with the quality of bulbs you sent on my recent order that I am herewith sending an order for a few hyacinths. Please send same at your very earliest convenience.

Yours truly,

MRS. F. L. MACK.

BEAUTIFUL, HARDY LILIES

These are the most fragrant, beautiful and stately of all flowers produced from bulbs; they require very little care. Do not disturb them oftener than every three to five years. Plant about six to twelve inches deep, according to size of bulb, and if the ground is not well drained use plenty of sand around the bulb, and lay it on its side. Plant in clusters of groups of six or more for best effect. The Formosum and Longiflorum Lilies force very easily. The Speciosum are next to the Auratum, the most magnificent species for outdoor culture. They increase in size and beauty each year.

SPECIAL.—One bulb each Lily (12 kinds) value \$2.75, special, postpaid, for only \$2.20.

LILIUM CANDIDUM.—This is the ever-popular, fragrant, snow-white, hardy garden Lily. The flowers are produced in clusters, at the top of 4 to 5-foot stems; blooms in the open ground in June. Should be planted in September.

Each, 15c; dozen, \$1.50; mammoth bulbs, 20c

LILIUM L. FORMOSUM.—This new Lily from Japan has taken the place of L. Harrissi on this Coast. The best for early forcing. Bulbs arrive in September. Plant in the fall or early spring.

Each, 15c; dozen, \$1.50; mammoth bulbs, 20c

LILIUM LONGIFLORUM.—Very much like the above but a little later; planted by the thousands by florists for Easter flowers; profuse bloomer. In the open ground they bloom in June and July.

Each, 15c; dozen, \$1.50; mammoth bulbs, 20c

AURATUM. The handsomest and probably the most popular of the Japan Lilies. Its immense ivory-white flowers are thickly studded with yellow and crimson spots, while in the center of each petal is a golden band, shading its edges into white; very fragrant.

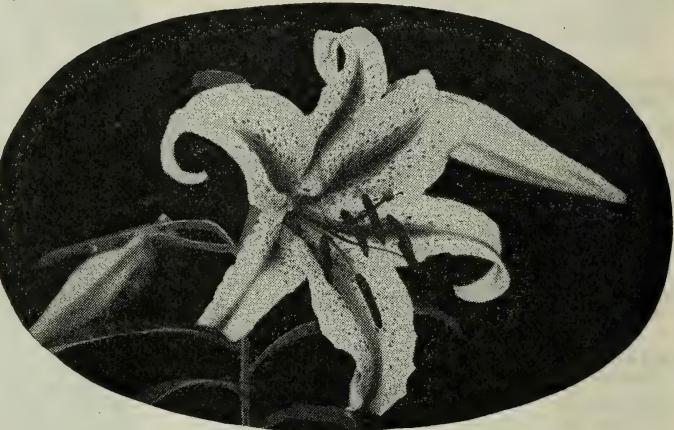
Each, 15c; dozen, \$1.50; mammoth bulbs, 20c; dozen, \$2.00.

AURATUM PICTUM. A most magnificent flower of same shape and color as Aratum above except that one-half of the gold band on each petal is a bright crimson; very rare and showy.

Each, 35c; dozen, \$3.00.

AURATUM BUBRUM VITTATUM. Very large flowers, often one foot across, pure ivory-white, with broad crimson stripe through center of each petal.

Each, 75c; dozen, \$7.00.



Lilium Auratum (one-fifth actual size.)

LILIUM SPECIOSUM. No words can overestimate the brilliant beauty of this charming variety. Its six broad white or pink petals are thickly dotted with rose or carmine spots, and the graceful form, brilliant color, and exquisite fragrance make this one of the most effective and desirable of the lily family. They are profuse bloomers, and last for many days after being cut and put in water.

SPECIOSUM ALBUM. Pure white; flowers freely. Each, 20c; dozen, \$2.00; mammoth bulbs, 25c; dozen, \$2.50.

SPECIOSUM RUBRUM. White, with dark rose spots. Each, 15c; dozen, \$1.50; mammoth bulbs, 20c.

SPECIOSUM MAGNIFICUM. A new and rare variety; the finest of all the Speciosums; flowers very large, white, shaded rich blood crimson, heavily spotted; very rich and showy.

Each, 20c; dozen, \$2.00; mammoth bulbs, 25c; dozen, \$2.50.

TIGRINUM FLORE PLENO (12). (Double Tiger Lily). A magnificent lily of stately habit, bearing immense clusters of large, double flowers; color bright orange, spotted with black.

Each, 15c; dozen, \$1.50; mammoth size, 20c; dozen, \$2.00.

TIGRINUM SPLENDENS (12) (Improved Single Tiger Lily). Large flowers of excellent form; color orange salmon, with dark spots; hardy and free bloomer.

Each, 15c; dozen, \$1.50; mammoth size, 20c; dozen, \$2.00.

WASHINGTONIANUM (10) (Mt. Hood Lily). A beautiful lily, native of Oregon; flower of open form; white, tinted with lilac; grows 3 to 5 feet high; very fragrant.

Each, 20c; dozen, \$2.00; mammoth bulbs, 25c each.

NOTE.—On display at our salesroom we have colored plates of all our Lilies, which will give you an excellent idea of just the shape and colors.

CHOICE ROSE PLANTS

One-year-old mail order size sent postpaid anywhere in the United States.

Oregon Grown Hardy Plants.

On this page we are offering four choice collections of the finest roses. This is the popular mail order size that we send by mail or express, charges prepaid. They are grown in small pots, are strong, healthy and well rooted, and from 8 to 12 inches high. They should not be planted outside before severe weather is over in the spring, but you can order early and keep the plants in boxes or pots in a sheltered location until the ground is ready. By doing this you will have them on hand just when wanted, and your plants will be growing larger and hardier. While this size will not produce so many blooms the first season as our large field grown plants offered on the following pages, you will be surprised at the results you can obtain, and at quite a saving in price. Do not class these plants and others we offer with the cheap, low-priced plants advertised and sold by Eastern and Southern florists, for there is no comparison. We have no time for "trash."



Mrs. Foley Hobbs.

Novelty Collection of New Roses.

Price 25 cents each; set of 6 sorts \$1.25.

EDWARD MAWLEY.—Comes finely recommended from England, where it was shown in fine form at numerous rose shows. Color intense scarlet shaded to crimson.

DUCHESS OF WELLINGTON.—Intense saffron yellow, stained with rich crimson. Very large and of fine form.

JONKHEER J. L. MOCK.—This new Holland giant is head and shoulders above other new sorts with its remarkably strong growth and large, massive

flowers. Color clear rose pink.

MRS. FOLEY HOBBS.—A grand new tea rose of strong growth. Massive blooms of ivory white faintly tinged with pink.

LADY HILLINGDON.—Long, pointed buds of a rich orange-yellow color, borne on long, graceful stems. Always in bloom.

LADY ALICE STANLEY.—Stout, vigorous-growing rose, bearing beautiful long pointed buds; coral rose, shaded lighter on inside of petals.

Six Grand New Everblooming Roses.

Price, 20c each; set of 6 sorts \$1.00.

MADAME MELANIE SOUPERT.—Orange yellow, shaded lighter, beautiful and distinct.

MOLLY SHARMAN CRAWFORD.—Superb new white garden rose of the highest order.

MRS. ARTHUR WADDELL.—Rosy scarlet buds opening into rich copper-colored flower.

MRS. DAVID JARDINE.—One of our finest new pink garden roses; very large flowers.

MY MARYLAND.—The freest flowering variety in existence. Fine globular pink flowers.

RHEA REID.—Color rich crimson cerise; very strong grower and free in bloom.

Beauty Collection—Very Choice

Price 15c each; set of 12 for \$1.25, postpaid.

American Beauty.—Rosy crimson; fine large flowers.

Belle Seibrecht.—Bright pink; beautiful flowers.

Betty.—Rich, coppery rose color, shaded gold.

Kaiserine Augusta Victoria.—Best creamy white.

Etoil de France.—Dazzling crimson scarlet.

Madam Caroline Testout.—Our most popular pink.

Mad. Abel Chatenay.—Glowing dark pink; very free.

Maman Cochet.—Beautiful rosy pink; very fine.

Souv. de P. Notting.—Rich yellow, bordered pink.

Virginia R. Coxe.—Fiery crimson; free bloomer.

Souv. de President Carnot.—Shell pink; fawn and creamy white.

White Maman Cochet.—Pure white; elegant buds.

Hardy Collection—Popular Roses

Price 15 cents each; set of 12 for \$1.25 postpaid.

Anna de Diesbach.—Beautiful, clear carmine pink.

Baron de Bonstettin.—Dark, rich red; very large and full.

Captain Hayward.—Rich glowing red, very large.

General Jacqueminot.—Bright crimson; one of the best.

Gloire de Margotten.—Bright red; fine buds, large flowers.

Gloria Lyonnaise.—Chamois yellow; full, sweet distinct.

Margaret Dickson.—White, shaded flesh; magnificent flower.

Magna Charta.—Pink and carmine; large, full flowers.

Mrs. John Laing.—Soft, delicate pink; free flowering.

Paul Neyron.—Large, deep rose; double and handsome.

Prince Camile de Rohan.—Dark maroon; one of the darkest.

Ulrich Brunner.—Rich, glowing crimson; large bold flowers.

NOTE.—If you want varieties not offered in the collections above, you can make your own selection from those listed on the following pages at 15c each; 4 for 50c, with the exception of those priced above 40c each, which will be one-half of the two-year price.

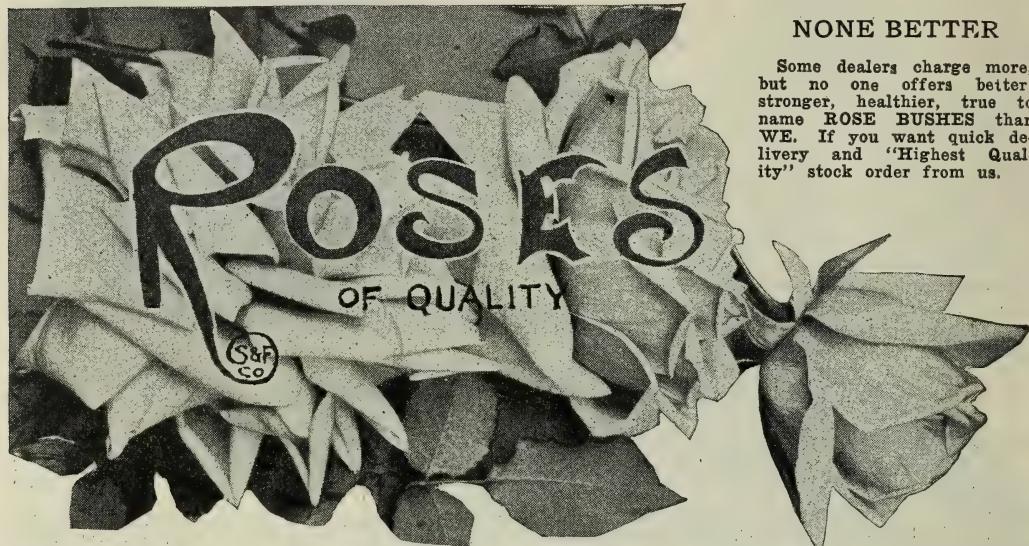


Mrs. David Jardine.

CLIMBING ROSES We can supply most any of our Climbing Roses (see page 80) in mail order size at 15c each; 4 for 50c, postpaid.

For your convenience—Classification under colors

This year we have arranged our roses all under their predominating color, which appeals to us as the most convenient way. While the descriptions are necessarily short on account of limited space, you will get class, color and main points of merit. We have tried to eliminate all out-of-date and inferior sorts. If you want roses for hedging or special beds for certain effects, we will gladly make selections for you or give you our opinion.



NONE BETTER

Some dealers charge more, but no one offers better, stronger, healthier, true to name ROSE BUSHES than WE. If you want quick delivery and "Highest Quality" stock order from us.

ABBREVIATIONS

Following the name of each sort will be noted an abbreviation denoting the class to which the variety belongs. By observing these and reading the following descriptions of such abbreviations, any one may intelligently make selections for all sections and to suit any purpose:

H. P.—HYBRID PERPETUAL.

These are the hardiest of all roses; many will stand the coldest sections; vigorous in growth and easy of culture, producing large flowers, fine in form and fragrance.

T.—TEA.

One of the best classes of roses, and truly ever-blooming. Many of these are the most beautiful and sweetly scented. They are hardy in this section, frequently wintering without any protection, although during our coldest weather and in cold sections they should be protected with a covering of fir boughs, straw or burlap.

H. T.—HYBRID TEA.

These, as a rule, are as free-flowering and as constant bloomers as the tea sorts. They are harder than the Teas, but, as a rule, not so hardy as the H. P.'s. Many of this class, however, are practically hardy, and a few are very hardy.

SHIPPING

BY FREIGHT OR EXPRESS.—We always send our 2-year-old rose bushes by express or freight, packing them so they will ship safely, even though they should be on the road for two weeks.

BY MAIL.—If necessary, we can send small 2-year-old bushes by mail at an additional cost of 7c each, to cover postage, but in such cases we always prune the tops and roots, ready for planting, as they carry safer.

NEW ROSES

Each year brings us new introductions in Roses, some very valuable and desirable, others not adapted to general culture, or not as good as our old standby. We watch these new varieties and know where the best stocks are to be had; in fact, have many of them ourselves. Order any kind you want, whether found

in this catalog or not. Remit the amount they are listed at by others, and we will secure them for you if they are to be had on this Coast.

No Fakes—Real Testimonials From Pleased Customers

*La Grande, Ore., July 12,
Routledge Seed Co.*

Dear Sirs: The Roses I ordered from you some time ago are growing nicely. Enclosed find another order for \$1.00.

I have purchased roses from many floral companies, but never received such healthy plants as I have from you. They are "great."

Wishing you continued success, I am,

*Yours truly,
MRS. C. A. MURRAY.*

*Bay City, Oregon, March 9,
Routledge Seed & Floral Co., Portland, Ore.*

Gentlemen: I have been well pleased with every order, and some of my Roses were very beautiful, especially as they were only two-year-old bushes and set out late as well. Everything I got from you last year did very well.

*Yours sincerely,
MRS. GEORGE WATT.*

*Seattle, Wash., May 2,
Routledge Seed & Floral Co., Portland, Ore.*

Dear Sirs: The Roses came in due time, but laid in the express office three days, as we are outside of the delivery district; but they were in good condition; all are doing nicely. Thanks very much for the extra roses.

*Sincerely yours,
MRS. E. O. WAITE.*

*Skagway, Alaska, June 16.
Routledge Seed & Floral Co.*

Gentlemen: The roses shipped came in fine condition. Many thanks.

*Respectfully,
MRS. GEO. R. DEDMAN.*

SUBSTITUTION

If the varieties of the roses ordered cannot be supplied or bought locally, others equally as good and correctly labeled will be substituted, unless otherwise ordered.

Pure White

FRAU KARL DRUSCHKI (H. P.)—This magnificent variety has taken first prize at all the great flower shows in Europe and America, and is undoubtedly one of the grandest, hardy, pure-white roses ever introduced. Makes splendid buds and immense flowers; vigorous grower, and a constant and abundant bloomer. A splendid variety for hedges.

Each 35c and 50c

WHITE KILLARNEY.—A vigorous growing hybrid tea of recent introduction. Its long, pointed buds, excellent substance and delicious odor recommend it to every lover of the rose. Color: White, lightly suffused with pale pink. Each 35c and 50c

MOLLIE SHARMAN CRAWFORD (T)—This fine variety is destined to achieve the greatest distinction as a garden rose. The flowers are very large, grandly formed, snow white, and of splendid texture. It is of good habit, fast growing and free branching; foliage dark and heavy, forming a good background for the snow white flowers. Stems strong, holding the flowers erect. It blooms very freely and is delightfully fragrant.

Each 75c

White Showing some Cream or Pink.

FLORENCE PEMBERTON (H. T.)—Creamy white, suffused pink; the edge of the petals occasionally flushed peach; flowers very large and full, of perfect form; one of the finest roses.

Each 50c and 60c

KAISERIN AUGUSTA VICTORIA (H. T.)—A beautiful rose, with elegant, large, pointed buds, and very large, full double flowers; color delicate creamy white; deliciously fragrant. The plant is a strong, healthy grower and constant bloomer; one of the choicest and most trustworthy garden roses; very popular.

Each 25c, 35c and 50c

MARGARET DICKSON (H. P.)—White, pale flesh center; extra large flower of fine form and substance. A beautiful variety.

Each 35c and 50c



Frau Karl Druschki.

MERVEILLE DE LYON (H. P.)—Flowers extra large, fine cupped form, full and regular and deliciously perfumed; ivory white, slightly flushed with carmine.

Each 35c and 50c

MILDRED GRANT (H. T.)—Moderate, silvery white, shaded peach; blooms large with high pointed center; not a very free grower, but so beautiful that every collection should include it.

Each 35c and 50c

MRS. THEO. ROOSEVELT (H. T.)—Creamy white, center rose; long pointed bud; flowers very large, full and well formed.

Each 35c and 50c

VISCOUNTESS FOLKSTONE (H. T.)—Flowers borne on strong stems, with thick foliage; color delicately tinted flesh, almost white, with beautiful satin finish.

Each 35c and 50c

WHITE LA FRANCE (T.)—This magnificent Rose is white, tinted blush; buds and flowers are extra large, very full and finely formed.

Each 35c and 50c

WHITE MAMAN COCHET (T.)—The name describes this new Rose—pure white, grand substance; immense size, exquisitely fragrant and a free bloomer; buds long and pointed; very popular.

Each 35c and 50c



Reine Karola De Saxe.

Light Pink

ADMIRAL DEWEY (H. T.)—Of large size and sterling merit. A sport of Mad. Caroline Testout, and superior to that sort in many ways. The ground color is a light flesh tint, almost white, suffused with a beautiful blush, deepening to a rosy blush in the center.

Each 50c

BELLE SIEBRECHT (H. T.)—A true, solid pink of the richest shade; a rare color; sweetly perfumed; large, beautifully formed, of long, tapering shape; when half-blown the petals reflex in a graceful manner.

Each 35c and 50c

CLARA WATSON (H. T.)—Salmon pink; extremely free in bloom. Buds long and pointed, of elegant proportions, opening into a very large, full flower. A grand new English variety.

Each 35c and 50c

REINE KAROLA DE SAXE.—Lovely soft pink, well displayed in full rounded blooms. It is a strong grower, with handsome leathery foliage. A grand rose for cutting purposes. The pearly pink tones of the flower are of exquisite effect.

Each 60c and 75c

PRICES AND GRADES—We have two and sometimes three grades or sizes in our field-grown rose bushes. 25c size at \$2.50 doz.; 35c size at \$3.00 doz.; 50c EXTRA SELECTED at \$4.00 doz.

Light Pink—Continued

KILLARNEY (H. T.)—A strong, robust grower and abundant bloomer; both buds and flowers are large; color brilliant sparkling pink, and delightfully sweet; a great favorite wherever shown.
Each 35c and 50c

LA DETROIT (H. T.)—A beautiful shell pink, shaded; a vivid rich color and fascinating; delightful tea fragrance. In form it is large, cup-shaped; petals shell-like; rich, glossy foliage; a rampant, vigorous grower, producing long shoots.
Each 35c and 50c

LA FRANCE (H. T.)—Perhaps no rose is better known or more highly valued than La France; both flowers and buds are of grand size; color a silvery pink; a general favorite. Each 25c, 35c and 50c

LADY URSULA (H. T.)—A truly magnificent rose, of vigorous, erect growth, possessing exceedingly free-blooming qualities. The foliage is large, massive and attractive. The flowers, produced on every shoot, are very large, full and of great substance and perfect form, with high center, from which the petals gracefully reflex; color a delightful shade of flesh pink, distinct from all others; delicately tea scented. Each 50c and 60c

MADAME CAROLINE TESTOUT (H. T.)—Probably no rose stands higher in public estimation today than this elegant Rose. It is a better bloomer than the La France, more brilliant in color, and as good in other ways; the petals are large, and of elegant form; exquisitely edged and bordered with clear, silvery rose; both flowers and buds are extra large and of very elegant form; color is brilliant, satiny pink. We have 3 grades—25c, 35c 50c each

MRS. JOHN LAING (H. P.)—Very free flowering, early and late; color a soft, delicate pink, with satiny tinge.
Each. 35c and 50c

Dark Pink or Rose

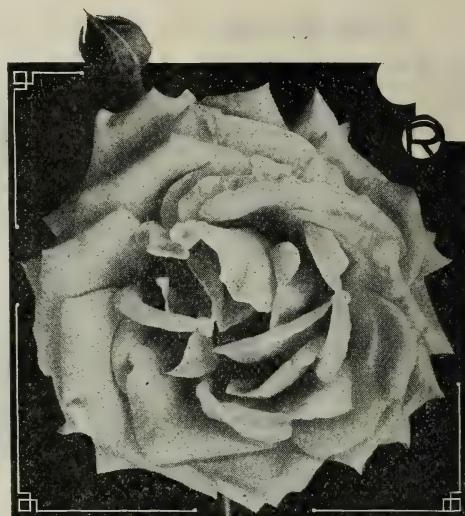
BARONESS ROTCHCHILD (H. P.)—Large size, fine globular form; color bright, rosy pink.
Each 35c and 50c

CAPTAIN CHRISTY (H. P.)—Color a lovely shade of pale peach; deepening at the center to a rosy pink.
Each 35c and 50c

MAGNA CHARTA (H. P.)—Bright rosy pink; full, globular flowers; very large and double.
Each 35c and 50c

MAMAN COCHET (T.)—This is one of the most beautiful Tea Roses we list; extensively planted and very popular; the color is a deep, rosy pink, the inner side of petals silvery rose. Each 35c and 50c

MAD. MAURICE DE LUZE (H. T.)—One of the most satisfactory roses of its color; it has splendid large cupped flowers, with heavy petals of a live,



La Detroit.

rich, rose-pink, with carmine center, the reverse of the petals shading lighter; a vigorous grower, free-flowering and very fragrant.
Each 75c

MRS. EDW. J. HOLLAND (H. T.)—A charming, deep salmon, shaded rose and pink. Excellent form and growth. Often called pink Killarney.
A profuse bloomer.
Each 75c

PAUL NEYRON (H. P.)—Deep, shining rose, double and handsomely formed; blooms freely and is unusually strong and vigorous; the largest variety in existence.
Each 25c, 35c and 50c

PRINCE DE BULGARIA.—New; a very vigorous grower, with large, bright green foliage, beautiful form of bud, flower very large and full. The outer petals are extremely large, of superb rosy flesh color, center of flower bright red, very fine and very free.
Each 35c and 50c

Scarlet—Bright Red

AMERICAN BEAUTY (H. P.)—It is a quick grower, constant bloomer, making magnificent buds and large, bold flowers; color rich, rosy red, shaded in the most charming manner.
Each 50c and 60c

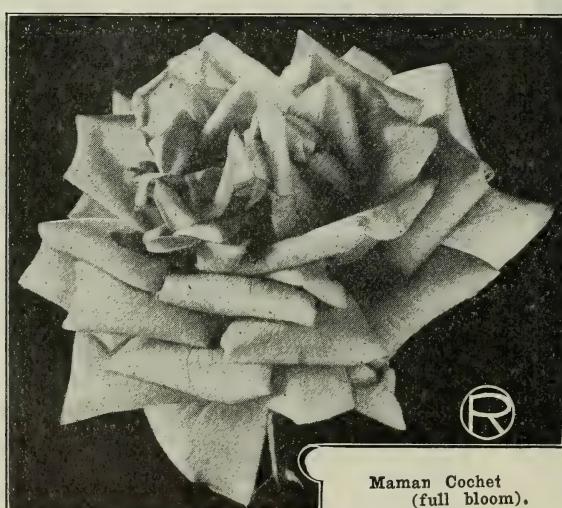
GENERAL JACQUEMINOT (H. P.)—Bright shining crimson scarlet; very rich and velvety; exceedingly brilliant and handsome; one of the best and most desirable for open ground.
Each 25c, 35c and 50c

GENERAL MacARTHUR (H. T.)—Color, brilliant scarlet; one of the most fragrant of the June scented roses and a true ever-bloomer; a perfect garden rose.
Each 35c and 50c

GRUSS AN TEPLITZ (H. P.)—Color fiery scarlet, with a dark, velvety sheen; very fragrant; the freest blooming rose in existence; the mass of color produced is wonderful.
Each 25c, 35c and 50c

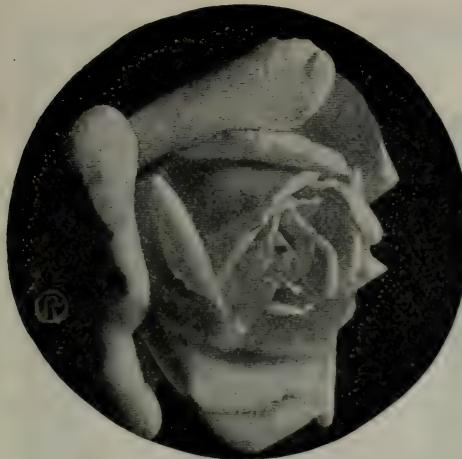
LADY BATTERSEA (Red Nipheta) (H. T.)—Long, oval, pointed buds; the color is a bright, cherry crimson; an unusually showy variety.
Each 35c and 50c.

PAPA GONTIER (T.)—Large and semi-double; a vivid cherry red color, shaded yellow; reverse of petals crimson. Prized highly for its beautiful pointed buds.
Each 35c and 50c



Maman Cochet
(full bloom).

PRICES AND GRADES—We have two and sometimes three grades or sizes in our field-grown rose bushes. 25c size at \$2.50 doz.; 35c size at \$3.00 doz.; 50c EXTRA SELECTED at \$4.00 doz.



Mad. Maurice De Luze (pg. 4).

Scarlet—Continued

RHEA REID (H. T.).—A new Rose, highly spoken of; as large as American Beauty, as double as Bridesmaid, as fragrant as La France, as red as Richmond; certainly grand. Each 50c and 60c

RICHMOND (H. T.).—A splendid new American Rose of great merit; strong in growth; splendid foliage and long stems; color a magnificent, rich scarlet crimson; the most vivid we have yet seen among ever-blooming roses; profuse bloomer.

Each 25c, 35c 50c

ULRICH BRUNNER (H. P.).—This is really a magnificent rose; extra large, bold flowers, full and globular; petals large and of good substance; color rich, glowing crimson, elegantly flamed with scarlet; a good grower and free bloomer.

Each 25c, 35c 50c

J. B. CLARKE (H. T.).—New Irish variety of great merit, either for garden decoration or for cut flowers. The color is bright scarlet; petals large, shell-shaped and of immense substance; flowers very large, full and perfectly formed; growth vigorous and free-branching habit; flowering freely and continuously from early in summer until late in autumn.

Each 50c and 60c

VELUWEZOOM (H. T.).—Deep bright carmine rose, center shaded with golden yellow; large and full.

Price 75c

Crimson—Deep Red

CHATEAU DE CLOS VOUGEOT (H. T.).—A very rich, fiery scarlet shading to deep velvety crimson; immune from black spot and mildew. The flowers are large, full and globular and are borne singly on good stems. It is delightfully fragrant, a prolific and continuous bloomer.

Each 75c

ETOIL DE FRANCE (H. T.).—Of vigorous, healthy growth; beautiful buds and flowers; full and fragrant; color rich, glowing crimson, shaded with vermillion.

Each 35c and 50c

FRIEDRICHSRUH (T.)—Blood-red, large, full, of perfect form, and flowers continuously; excellent habit of growth. Awarded gold medal at Dusseldorf. A valuable addition to the tea section.

Each 75c

GLOIRE DE MARGOTTIN (H. P.).—A good, healthy grower; flowers extremely brilliant, almost scarlet; live and lasting; large, full, globular, of good shape; pretty in bud, extremely beautiful.

Each 35c and 50c

HUGH DICKSON (H. P.).—Brilliant crimson, shaded scarlet; good size and fine form; petals slightly cupped and reflexed; highly perfumed.

Each 35c and 50c



La France (pg. 4).

LIBERTY (H. T.).—Color rich, fiery ruby, shaded deep crimson; fragrance exquisite; without doubt one of the finest ever-blooming roses in existence.

Each 60c

Dark Red

BARON DE BONSTETTIN (H. P.).—Splendid, large flowers, very double and full; rich, dark red, passing to deep dark, velvety maroon.

Each 35c and 50c

BLACK PRINCE (H. P.).—Splendid dark crimson flowers, almost black; cupped, large, full, fine shape.

Each 35c and 50c

PRINCE CAMILE DE ROHAN (H. P.).—Very dark, rich, velvety crimson, passing to intense maroon, shaded black; one of the darkest roses and very handsome.

Each 35c and 50c

WARRIOR (H. T.).—Blood-red in bud opening to scarlet crimson; fine form, fragrant.

Price 75c



Ulrich Brunner.
A Fine
Hedge Rose.

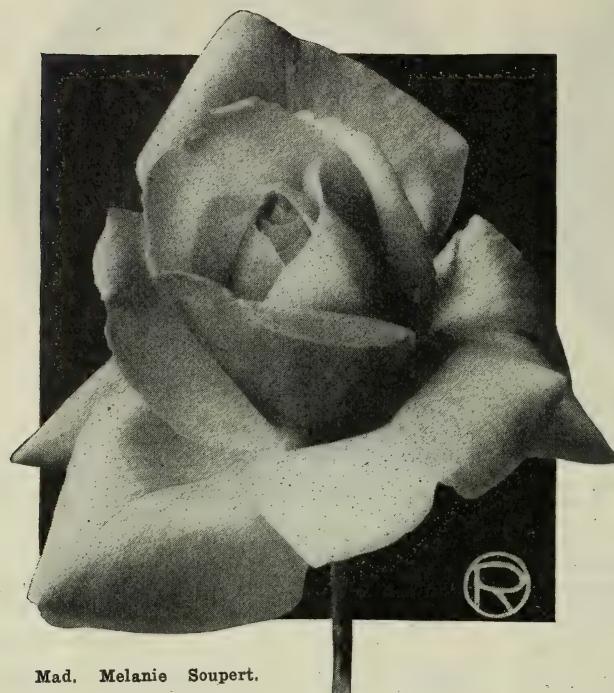
Corvallis, Ore.,
May 11, 1911.

Gentlemen: My
Plants arrived in fine
condition and began to
grow immediately on
setting out.

MRS. J. G. MORRIS.

Some Charge More, But No One Offers Better, Stronger, Healthier, True-to-Name Rose Bushes Than WE. See dozen prices, opposite page.

Distinct Varieties



Mad. Melanie Soupert.

JOSEPH HILL (H. T.)—Vigorous; beautiful clear salmon pink. Outside of petals shaded pink, orange and copper; bloom large, full and perfect form. Each 50c and 60c

JONKEER J. L. MOCK (H. T.)—A magnificent and unique Rose. Inside of petals red, outside silvery blush white. Of fine form, good substance and largest size. A strong, rapid grower. This rose has been awarded eight prizes at the recent European shows. Each \$1.00

JULIET (Wm. Paul & Son, 1910).—This beautiful variety has attracted great attention in England during the past two seasons, and when better known is certain to become as popular with us. It is a most distinct and attractive novelty, with large, perfect flowers. The outside of the petals are old gold, the interior rich rosy-red changing to deep rose as the flowers expand; of powerful, delicious fragrance; greatly admired. Each \$2.00

LADY ROBERTS (T.)—Vigorous; apricot yellow, base of petals coppery red, edges shaded orange; very beautiful. Each 50c

LYON ROSE (H. T.)—The flowers are of a superb shrimp pink color, with salmon and chrome yellow shadings, beautiful beyond description; large buds, magnificently formed; petals elegantly formed and large; flowers full, very large and on stiff stems. Bound to become one of the best-known varieties. Each 50c and 60c

MARQUIS DE SINETY (H. T.)—Golden orange, shading to fiery red, large double flowers, of good form, very beautiful and attractive. A splendid garden rose for summer blooming; vigorous and hardy. One of the grandest of the new roses. Each 75c

MAD. RAVARY (H. T.)—Vigorous; salmon fawn, often golden orange; free and continuous bloomer; a fine rose. Each 50c

MAD. MELANIE SOUPERT (H. T.)—Vigorous. Saffron yellow suffused with carmine and pink; very large, free blooming, and one of the most beautiful and distinct sorts. A great favorite. (See cut.) Each 50c and 60c

Combinations of Yellow, Orange, Pink and Red

The following varieties and colors are certainly beautiful and much sought after.

BETTY (H. T.).—Introduced by Messrs. Dickson & Sons, Belfast, Ireland, and regarded by them as the grandest of the many valuable and new roses of merit which they have originated; a robust grower and of a unique color, being of a ruddy gold, overspread with golden yellow; deliciously perfumed; large and of glorious form; blooms continuously. Each 50c

COUNTESS OF DERBY (H. T.)—Center salmon, shading into delicate peach, large and finely formed, very large petals, free and fragrant. A strong growing variety, producing long pointed buds upon stout canes. Each 60c

DEAN HOLE (H. T.)—An exquisitely beautiful rose, of bright carmine pink color, with silvery shadings and with the grandeur of American Beauty in form and foliage; a fine grower, free in bloom; extra fine. Each 50c

DOROTHY PAGE ROBERTS.—(H. T.)—Coppery pink, suffused with apricot yellow, very free and profuse bloomer, a delightful garden Rose. Each 60c and 75c

For Rose Stakes, Sprays, Pruners, Fertilizer, Etc., see our complete Catalog.



Mad. Segond Weber.

Perennial Flowering Plants are rapidly gaining in favor. They are beautiful in borders, beds or among shrubbery, and flower each year. Plant in the fall or spring. See pages 12 to 16.



Mrs. Aaron Ward.

MAD. SEGOND WEBER (H. T.)—A magnificent light rosy salmon. Buds long and pointed that expand into flowers of immense size. In its particular color there is nothing to touch it. It blooms with remarkable persistence, and it is unusual to see an imperfect bud or flower. As a cutting rose it is of premier quality. Each 50c and 60c

MRS. AARON WARD (H. T.)—This Rose is a real joy to the grower and absolutely distinct. One of the most delightful Roses of recent years in a color that catches the eye at once. Coppery-orange in the open bud, golden-orange when partly developed,



Lady Hillingdon (Yellow, page 78).

pinkish-fawn of lovely shade when fully open, when it looks like a full fluffy-silk rosette. No wonder everybody that sees it falls in love with it; one of the most beautiful Roses in existence. Each 75c

MRS. EDWARD MAWLEY (T.)—Beautiful silvery pink, with creamy yellow suffusion at base of petals; a magnificent Rose of finest form, extra long pointed buds; petals of great substance, beautifully reflexed; buds solid, flowers full; free-blooming, vigorous grower, and good keeper; a gold medal Rose of distinctive form and great value. Each 50c

MRS. A. WADDELL (H. T.)—A lovely new color; deep reddish apricot toned with salmon. Same form as Papa Gontier, but with much longer buds. It is a vigorous grower and constant bloomer, and incidentally a wonderful advance in Roses approaching this color. Each 60c and 75c

MY MARYLAND.—The vigorous growing and free blooming habit of this Rose is little less than marvelous. The flowers are somewhat globular in form, very full with shell-shaped petals of waxlike texture. The color is a bright glowing pink, each petal being shaded lighter at its base. We know of no Rose which produces fine flowers so freely as does this sort. Very hardy and apparently immune from disease. Each 50c and 60c

MISS KATE MOULTON (H. T.)—Beautiful salmon-peach pink, delicately shaded; buds long and pointed; foliage good; free bloomer. Each 35c and 50c

SOLEIL D'OR, OR GOLDEN SUN (H. P.)—A superb color varying from orange-yellow to reddish-gold, shaded with Nas-turtium-red; large, full, double flowers; a strong grower. Each 35c and 50c

SOUV. DE PRESIDENT CARNOT (H. T.)—Of extraordinary beauty, very large, full, deep and deliciously sweet; lovely shell pink, delicately tinted with golden fawn on rich, creamy white; superb. Each 35c and 50c

SOUV. DE PIERRE NOTTING (T.)—Very large, perfectly full; of elegant form; has a beautiful, long bud; color orange-yellow, bordered in carmine rose. Each 50c

WINNIE DAVIS (H. T.)—A fine new American pedigree Rose. Color, rich apricot pink, shaded to flesh at base of petals. Beautifully formed buds and flowers; very free in growth and bloom. Each 35c and 50c



Souv. de Pres. Carnot.

PRICES AND GRADES—We have two and sometimes three grades or sizes in our field-grown rose bushes. 25c size at \$2.50 doz.; 35c size at \$3.00 doz.; 50c EXTRA SELECTED at \$4.00 doz. For Mail Order Size, see page 71.

The Best Yellow Roses

ANNA OLIVER (T.)—A superb free-blooming rose. One of the best roses for general cultivation, succeeding in almost any situation. The flowers are double, extra large, and of splendid substance; color creamy yellow, shaded with blush and edged with silver-rose; very fragrant. Each 50c

ELIZABETH BARNES (H. T.)—Satinly salmon rose with fawn center, suffused yellow, outside of petals rosy red, tinted copper and yellow; flowers large, full and freely produced. Each 60c and 75c

FRED HARMS (H. T.)—The beautiful large orange yellow flowers are borne on long stiff stems; free flowering. Catalogued by some as Yellow Kaiserin. Each 75c

FURST BISMARCK (H. T.)—One of the most desirable yellow roses. Strong, healthy grower; a beautiful canary yellow. Price 60c

FRANZ DEEGEN (H. T.)—Moderate grower; soft yellow, with golden center, fine erect grower; one of the best pale yellow roses. Each 50c

GLOIRE LYONNAISE (H. T.)—Color chamois yellow; deepest at the center, passing to creamy white; large, full, sweet and very distinct. Each 25c, 35c and 50c

LADY HILLINGDON (T.)—Deep apricot yellow, long and pointed bud, a fine forcing or garden rose, excellent for cutting. Flowers are of good substance, very lasting and foliage handsome and luxuriant. Lady Hillingdon is considered the best decorative rose in its class. This aristocratic beauty is a seedling from Papa Gontier and Madame Hoste. (See cut, p. 77.) Each \$1.25

MADAME HOSTE (T.)—Creamy yellow, with deep buff yellow center; very large and delicately sweet; a constant and profuse bloomer; one of the finest sorts in cultivation. Each 35c and 50c

MARIE VAN HOUTTE.—Of a fine, straw-yellow color; outer petals washed and shaded with a bright rosy carmine; occasionally the whole flower will be suffused with light pink. Each 35c and 50c

MILLE. FRANCISCA KRUGER.—A favorite rose. The coloring is strikingly handsome, a blending of deep yellow with copper-yellow and buff shadings. Fine buds and splendid flowers which remain in condition a long time. Each 25c, 35c and 50c



New Rose
Rayon d'Or.
Yellow

PERLE DES JARDINS (T.)—Beautiful rose; clear, golden yellow, entirely distinct from any other variety. Each 25c, 35c and 50c

RAYON d'OR, or **GOLDEN RAYS** (Pernet Ducher, 1910).—A gorgeous new golden-yellow rose. A vigorous, strong grower, with glossy foliage, which appears immune to the attacks of mildew. Flowers large, of globular form, color beautiful yellow as the buds begin to expand, toning to golden-yellow as they fully develop; a superb rose. Each \$1.50

SAFRANO (T.).—Bright apricot yellow, tinged orange and fawn; valued highly for its beautiful buds; very profuse in bloom, and deliciously tea scented. Each 25c, 35c and 50c

SUNSET (T.).—This grand rose is a favorite wherever known; the color is a rich, golden amber, or old gold, elegantly shaded, and buds are extra large, full, finely formed and deliciously perfumed. Each 35c and 50c

Philomath, Ore., May 9, 1912.

Routledge Seed & Floral Co.

Dear Sirs: We wish to state that we are highly pleased with the orders you filled, both of bulbs and rosebushes, as well as of sweet peas, and fully expect to get splendid results from them. Very sincerely yours,

DENNIS H. STOVALL.

Moss Roses

Strong, vigorous growers, much admired for moss-covered buds; hardy; most varieties bloom but once in a season, but remain for a long time and very handsome. Price 35c each

CRESTED.—Deep pink buds, surrounded with mossy fringe; very beautiful and free from mildew.

BLANCH MOREAU.—Best pure white.

CHAPEAU DE NAPOLEON.—A good red.

Wichurian Roses

Memorial Rose

A low, trailing species, its stems creeping on the earth as closely as an ivy, and forming a dense mat of very dark green, lustrous foliage. It is a rapid grower and profuse bloomer; the flowers are single. Perfectly hardy and very desirable for creeping over walls or rockwork, or for covering unsightly places.

WHITE OR RED.

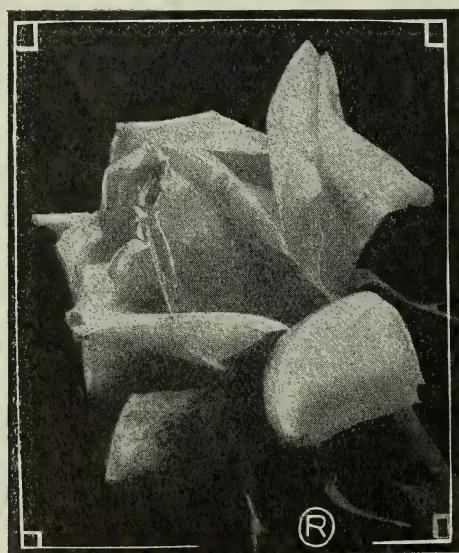
35c each; \$3.00 dozen

Some Charge More, But No One Offers Better, Stronger, Healthier, True-to-Name Rose Bushes Than We.

Kaisine Augusta Victoria (White. See pg. 73).

SUBSTITUTION

If the varieties of the roses ordered cannot be supplied or bought locally, others equally as good and correctly labeled will be substituted, unless otherwise ordered.



Standard or Tree Roses.

Prices, \$1.00, \$1.50 and \$2.00 each, according to size of head.

Tree Roses are budded or grafted on hardy rose stocks, about four feet high. They soon make good-sized heads, forming a small tree, especially desirable for planting as single specimens, in backgrounds or rows along walks or driveways.

Not all varieties are obtainable, but order any color or variety you wish, and we will send it or give you as good a substitute in same color as possible.

Weeping Tree Roses

These are produced by budding the trailing varieties on four or five-foot standards. They are very showy and quite a novelty. RED, YELLOW OR PINK. \$1.50 to \$2.00 each



Tree Rose—Frau Karl Drusckhi.

Rugosa Roses

These lovely Roses form sturdy bushes, 3 to 5 feet in height, covered with handsome, glossy green foliage and clusters of beautiful, fragrant single flowers. They bloom nearly the whole summer, and are equally as attractive during the autumn and winter when covered with their large, brilliant red seed pods. Of healthy, vigorous growth and not troubled with insects or fungus pests, and equally desirable alike as single specimens or for making a hedge.

WHITE OR RED.

85c each; \$8.00 dozen

RAMBLER OR PILLAR ROSES

The following climbing roses all grow vigorously, and are profuse bloomers. The flowers are borne in large clusters. They all belong to the polyanthus class, or more commonly known as the Ramblers.



Flower of Fairfield.

CRIMSON RAMBLER.—A charming, hardy pillar rose. The flowers grow in great pyramidal panicles, each carrying 30 to 40 blooms; the flowers are 1 to 1½ inches in diameter, and remain in perfect condition on the plants for a long time; a bright, vivid crimson; a very vigorous grower.

Each 25c, 35c and 50c

DOROTHY PERKINS.—New; beautiful shell pink; flowers in immense clusters; quite full and double; healthy and vigorous.

Each 25c, 35c and 50c

TAUSEND SCHON OR "THOUSAND BEAUTIES"

A beautiful, new climbing rose which has leaped into popularity by its inherent merit and beauty. Entirely distinct, not only in Ramblers, but in climbing roses generally. The individual flowers are very large for this type of rose, being fully 3 inches across and of a most elegant and graceful form, not stiff or unnatural, but as beautiful as a semi-double Azalea. In color it is a most delightful shade of soft pink when first opening, changing to carmine on the reverse of petals when fully expanded. These are produced in trusses of from 10 to 15 flowers, each truss a veritable bouquet. It is a rampant grower, very healthy with magnificent foliage.

Each 50c and 75c

FLOWERS OF FAIRFIELD.—A perpetual flowering "Crimson Rambler"; this has long been looked for and is undoubtedly one of the most valuable additions to this section since its introduction. The flowers are brighter than the original, and are produced in great profusion from early summer to late autumn; most valuable rose. Price 50c and 75c

GOLDFINCH (New).—A new yellow rose from Europe, claimed to be of superior merit; belongs to the Rambler family.

Each 50c and 75c

HIAWATHA.—There is no other rose so brilliant as Hiawatha. It must be seen to be appreciated. Its flowers are about 1½ inches across, and produced in long, pendulous sprays, with frequently from 40 to 50 flowers on a spray. In color it is brilliant, ruby-carmine, with a clear white eye and a mass of golden stamens—a glowing combination of colors, which can be seen at a great distance, and which does not tire the eye as do masses of Crimson Rambler. The plant is of strong, vigorous growth, with bright green, glossy foliage, which is retained until late in fall.

Each 50c and 75c

LADY GAY.—A most desirable new variety of remarkable vigorous growth, with flowers of a delicate cerise-pink, passing to soft tinted white. The effect of a plant in full bloom with the combination of the soft white flowers, cherry-pink buds, and the deep green of the foliage is indeed charming.

Each 35c and 50c

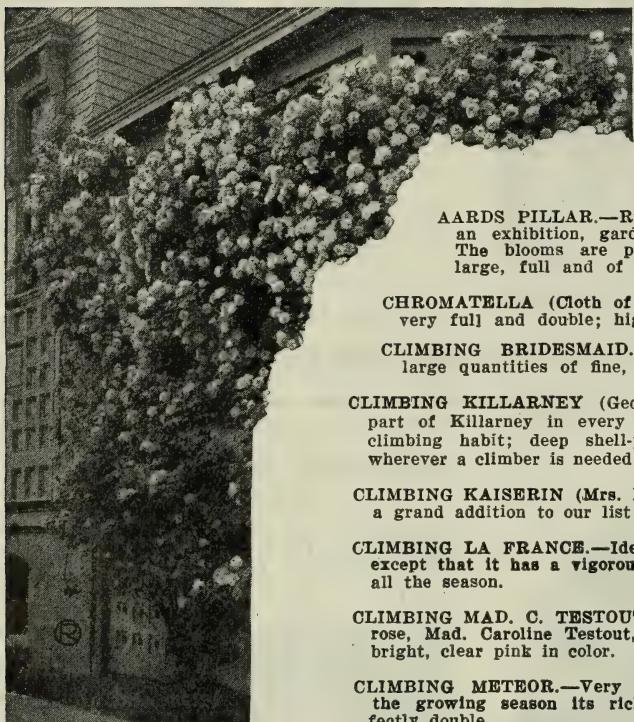
Rambler or Pillar Roses—Continued

VERLCHENBLAN—(Blue Rambler).—Has attracted much attention in Europe and America, and is the first rose of its color ever produced. This is a vigorous climber, flowers medium size, semi-double, borne in large clusters; color on opening is a rosy lilac, quickly changing to a metallic blue; has splendid foliage of a rich green color.

Each 50c and 60c

WHITE RAMBLER (Thalia).—Flowers pure white, sometimes faintly tinged blush; flowers borne in immense clusters; very vigorous.

Each 25c, 35c and 50c



Climbing Testout

CLIMBING BELLE SEIBRECHT.—This fine climbing Rose is the counterpart of the old favorite Belle Seibrecht, except that it has a vigorous climbing habit. We regard this as one of our finest pillar roses, the flowers being very handsome. Color the richest shade of rose pink ever seen in a Rose.

Each 50c and 60c

CLIMBING PAPA GONTIER (T.).—Same as the old favorite bush Papa Gontier, having the same splendid, cherry-red flowers, but of a strong climbing habit of growth.

Each 60c and 75c

CLIMBING WOOTTON.—A climbing variety of this fine red Rose that is bound to be very popular. It is a very strong, rapid grower, throwing long canes and bearing large clusters of true Woottons.

Each 50c and 60c

CLIMBING SAFRANO (Soflafaterre).—A strong climber; color orange yellow, or deep saffron; good size, full and sweet.

Each 35c and 50c

CLIMBING FRAU KARL DRUSCHKI.—Grand flower, pure white, identical with the bush type. Free blooming and extremely hardy; has vigorous climbing habit.

Each 75c

GAINSBOROUGH (Climbing Viscountess Folkstone).—For a hardy, ever-blooming climber, it has no

WHITE DOROTHY.—In this grand new Rambler we at last have a hardy white climbing Rose which will grow in any part of the country under adverse conditions, and one which will rank up with Crimson Rambler and Dorothy Perkins as a pillar and porch Rose. As its name indicates, it is a sport from Dorothy Perkins, possessing all the fine qualities of that grand variety, but having pure snow-white flowers. This Rose we believe will become a fixture in the list of climbing roses.

Each 50c and 75c

YELLOW RAMBLER (Aglaia).—Strong grower, profuse bloomer.

Each 25c, 35c and 50c

CLIMBING ROSES—

Large Flowering.

The Climbing Roses below are of the same size and form as the bush class. They produce a mass of blooms and more should be planted.

AARDS PILLAR.—Rich, velvety crimson, the perfection of an exhibition, garden and pillar rose; foliage attractive. The blooms are produced with great freedom, and are large, full and of cupped form.

Each 50c

CHROMATELLA (Cloth of Gold).—A clear, golden yellow; large, very full and double; highly fragrant.

Each 50c

CLIMBING BRIDESMAID.—A rampant climber and producing large quantities of fine, large, dark pink flowers.

Each 60c

CLIMBING KILLARNEY (Geo. Reinberg, 1908).—An exact counterpart of Killarney in every respect except that it is of vigorous climbing habit; deep shell-pink. This will prove a great Rose wherever a climber is needed.

Each 60c and 75c

CLIMBING KAISERIN (Mrs. Robt. Peary).—Flowers fine ivory white; a grand addition to our list of climbing roses.

Each 35c and 50c

CLIMBING LA FRANCE.—Identical with the well-known La France, except that it has a vigorous climbing habit, flowering continuously all the season.

Each 50c

CLIMBING MAD. C. TESTOUT.—An exact counterpart of that grand rose, Mad. Caroline Testout, except that it is a vigorous climber; bright, clear pink in color. (See cut.)

Each 50c and 75c

CLIMBING METEOR.—Very free flowering, producing all through the growing season its rich, dark, velvety crimson flowers, perfectly double.

Each 60c

equal, even eclipsing that grand variety, Mrs. Robert Peary. Its delicate colors are hard to describe, being delicately tinted flesh, almost white, and lustrous as satin.

Each 50c and 60c

GLOIRE DE DIJON.—Noted for the great size of its flowers, its delicate tea scent, and its shades of color, being a blending of amber, carmine and cream; a magnificent climber.

Each 35c and 50c

LA MARQUE.—Flowers of good size, borne in large clusters; color pure white.

Each 35c and 50c

MADAM ALFRED CARRIERE.—Extra large, full flowers; very double and sweet, and a most profuse bloomer; color rich, creamy white, faintly tinged pale yellow.

Each 35c and 50c

MARECHAL NEIL.—A magnificent, deep golden yellow variety; so famous as to need no description; grown the world over for its immense yellow flowers; the finest rose of its color in existence.

Price 50c and 75c

REINE MARIE HENRIETTE.—Vigorous grower; flowers large, full; color glowing crimson; elegantly shaded.

Each 35c and 50c

WILLIAM A. RICHARDSON.—Color rich, coppery yellow, flushed with carmine; a very beautiful variety, having few equals.

Each 50c

SHADE, NUT AND ORNAMENTAL TREES AND SHRUBS

HARDY FLOWERING SHRUBS.—There is nothing which so quickly, and for so little cost, adds so much to the beauty, cheerfulness and homelike appearance of a place as an assortment of hardy shrubs. They are permanent improvements, which increase in size, value and beauty year after year.



Space in this catalog will not permit us to illustrate and describe the following stocks as we would like to, but if you live in the vicinity of Portland or some town where we have an experienced salesman, we will gladly have him call on you. Our salesmen carry handsomely colored plate books and photographs of all our leading stocks. These books are very interesting, and we would like to show them to you if possible. Write.

LANDSCAPE ARCHITECTS AND GARDENERS

We are in close touch with the best landscape architects and gardeners in the West, and no matter how small or how elaborate a garden, lawn or park you want laid out, we will put you in touch with an artist equal to the occasion, if you give us an idea of what you want. This is free service to our customers. You make your own arrangements with the person sent, as to plans, labor, etc.

FOR YOUR GUIDANCE

To make it more convenient for the average person to find certain stocks, we will list in alphabetical order all Shade, Nut and Ornamental Trees and Shrubs (climbing plants excepted), and use the following letters after the name to classify them.

D—Deciduous—Trees and Shrubs that drop their foliage in fall and winter

E—Evergreens—These retain their foliage year around

ACER.—See Maples.

ACUBA (E).

Japonica.—Beautiful, broad leaved evergreen, with leaves speckled and striped golden yellow; elegant shrub for specimen on the lawn or for planting among other shrubbery; bears bright red berries in winter time. 1½ to 2 feet, \$1.25 to \$3.00

ALMOND (D)—Nut Bearing.—Almonds can be grown successfully in many sections of Oregon and Washington, and are attracting much attention from commercial orchardists. We can supply most of the leading varieties at price listed. Special prices on large orders. Select Trees 4 to 6 feet, each 50c to 75c

I. X. L.—A vigorous grower and sure cropper, producing nuts of large size and handsome appearance; shell thin; most popular commercial sort.

Hard Shell.—A fine, hardy variety, with large, plump kernel of good quality.

ALMOND (Flowering).—Beautiful shrub, bearing in May, before the leaves appear, double, rose-like flowers.

Double Red or White.—3 to 4 feet. Each 50c to 75c

ALTHEA (D)—Rose of Sharon.—These beautiful shrubs bloom very freely in August and September, when few other shrubs are in bloom, and, being easily cared for, are worthy of a place in every garden. Our collection comprises double varieties. Purple, Pink and White.—3 to 4 feet. Each 60c to 75c

ARBOR VITAE (Thuya).

Pyramidal.—A most valuable upright evergreen of dense compact habit. Each \$1.00 to \$3.50

Chinese Golden.—A low, compact shrub of a beautiful golden yellow. 1 foot up \$1.00 to \$3.00

ARAUCARIA, IMBRICATA (E).

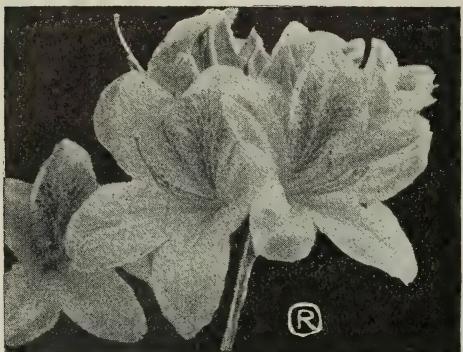
Chile Pine, or Monkey Tree.—Very rare and beautiful, pointed, needle-like leaves. 1½ feet up, \$1.50 to \$2.50; specimens, \$8.00 to \$50.00.

Araucaria Excelsa.—See Palms and Plants.



Althea (Rose of Sharon) Flower

We import a miscellaneous lot of evergreens that we do not catalog. Write for price on any stock wanted.



Azalia Mollis.—(Flowers one-third size)

AZALEA (D).

Mollis.—The most gorgeous of all hardy shrubs. The blossoms, which vary in color from intense crimson to lemon yellow, are borne in greatest profusion in early spring, before the leaves appear. It makes a compact, symmetrical shrub.

BUDDED.—Select varieties in White, Yellow, Orange or Red, each, \$1.50 to \$2.00; Seedlings, assorted, 75c to \$1.50.

AZALEA (E).

Crimson.—A hardy evergreen species. These are dwarf compact growers. Foliage small. Flowers dazzling crimson. Each \$1.25 to \$1.50

BAMBOO (E).

A very ornamental Oriental plant. We import a fine collection of Bamboo from Japan. Clump, each 75c to \$1.50

BERBERIS—D—(Barberry).

The Barberry is an interesting family of shrubs, varying in size from 3 to 6 feet and having graceful, feathery foliage. Its showy flowers in early summer are succeeded by bright-colored fruit, which is very conspicuous in autumn and early winter.

Thunbergii.—A beautiful Japan variety of dwarf habit. Small foliage, changing to beautiful red in autumn. Very desirable for grouping. Fine for hedge. Each 50c to 75c

Vulgaris (Common European).—Yellow flowers in drooping racemes in early summer, followed in autumn by orange-scarlet fruit. Each 50c to 75c

Vulgaris Purpurea (Purple).—Violet-colored foliage and fruit; rich-looking and very effective when contrasted with plants of lighter foliage. Each 50c to 75c

BEECH (D)—*Fagus*.

Purple Leaved.—Foliage is deep purple in the spring, changing to crimson in the fall. 3 to 6 feet, each \$1.50 to \$3.00 and up

Weeping (Purpurea Pendula).—One of the most beautiful and ornamental weeping trees. Each \$2.00 to \$3.00

BIRCH (D)—*Betula*.

Remarkable for its elegance; very graceful, with silvery bark and slender branches.

European White. 6 to 8 feet, each 75c; 8 to 10 feet, each \$1.00 to \$1.50

Weeping Cut-Leaved (*alba lanciniata pendula*).—Charming Tree. Its tall, slender, yet vigorous growth, gracefully drooping branches, silvery-white bark and delicately cut foliage present a combination of attractive characteristics rarely met with in one tree. 5 to 6 feet, each \$1.00; 8 to 10 feet, \$1.50 to \$2.50.

BLEEDING HEART.—See *Dicentra*, page 13.

BOX ELDER.—See *Negundo Maple*.

BOXWOOD (E)—*Buxus*.

A compact, small-leaved evergreen, that can be trimmed into balls, box or pyramidal shape. They make handsome single specimens for lawn or porch decoration.

Dwarf, Common.—Fine for borders, edgings or low hedges.

6-inch, each 15c; per 100, \$10.00; bush plants \$1.00 per foot.

Specimen Plants.—These plants are grown and trimmed in the Holland nurseries and are shapely and compact; they are very desirable for decorative purposes. When ready to buy write or call for detailed information and prices.

Pyramids.—2 feet and up. Each \$2.50 to \$10.00
Standards.—Ball-shaped on heavy stalks, 12-inch heads and up. Each \$2.50 to \$12.50

BUTTERNUT (D).

4 to 5 feet, each 75c to \$1; 6 to 8 feet \$1.50

CALYCANTHUS (D)—Sweet-Scented Shrub.

Floridus (Carolina Allspice).—Very sweet-scented, aromatic foliage; chocolate-colored double flowers. Very ornamental shrub. Each 60c to 75c

CAMELLIA (E).

Beautiful for the house or garden; evergreen foliage; wax-like flowers, which appear about Christmas indoors or early spring outside.

Japonica, Double White, Pink or Red. 1½ to 2 feet, each \$1.00 to \$1.50

CATALPA (D).

A beautiful shade tree. White flowers in July. Speciosia.

4 to 5 feet, each 60c; 7 to 9 feet 75c to \$1.00
Bungei.—Very ornamental. 6 feet, \$1.50 to \$2.50

CEDAR (E)—*Cedrus*

Atlantica.—One of the most beautiful evergreens. Upright growth, but low-branched and of compact habit. Foliage light green. Each \$1.00 to \$3.00

Deodora (Deodar or Indian Cedar).—Of vigorous growth; pyramidal form; graceful foliage of a light, silvery or glaucous green. One of the most beautiful of evergreens. Each, 1 foot up, \$1.00 to \$3.00 and up

Aurea.—Graceful foliage of light golden yellow on the young shoots. Each \$1.50 to \$3.00

Weeping (Drooping Red Cedar).—With spreading limbs and slender, pendulous branches. Each \$1.00 to \$3.00

CHESTNUT (D).

Very popular, stately shade trees.

American Sweet. 6 to 8 feet, each \$1.00 to \$1.50

Spanish. 4 to 6 feet, each \$1.00; 7 to 8 feet \$1.50

Mammoth Japanese.—Large, good edible nuts. 4 to 6 feet, each 75c to \$1.00; 6 to 8 feet \$1.50

Horse, European, Red Flowering.—Much slower grower than the white. 3 to 4 feet, each \$1.00; 6 to 8 feet \$1.50 to \$2.00

Horse, White Flowering. 4 to 5 feet, each 60c to 75c; 6 to 8 feet, \$1.00 to \$1.50; 8 to 10 feet, specimens, \$1.50 to \$2.00

CLETHRA (D)—Sweet Pepper Bush

Alnifolia (Sweet Pepper Bush).—An upright, slow-growing shrub, with spikes of fragrant white flowers in midsummer, which continue for a long time. Useful for massing, for natural planting of woods, or for the beauty of the single specimen. Each 60c to 75c

COTONEASTER (E).

Choice evergreen, with minute, deep, glossy, green foliage and red berries.

Horizontalis.—A plant of prostrate habit of growth, admirable for covering low walls, or to use in rock work. Choice plants, each 50c to 75c and up

Simondsii.—A beautiful, upright shrub, with fruit of a rich, deep orange color. Each 50c to 75c

Our prices are for large field grown shrubs—not small one-year cuttings or greenhouse plants. They are worth all we ask. Don't compare our prices with the cheap Eastern mail order houses.

CRYPTOMERIA (E).

Beautiful evergreen for lawn planting. We import choice sorts from Japan.

1 to 3 feet, each \$1.50 to \$4.00

Elegans.—Delicate fine foliage that changes to reddish brown in winter. Each \$1.50 to \$5.00

CRAB. FLOWERING (D)—*Malus*

Bechtel's Double Flowering Crab.—Bears masses of double, rose-like flowers, of a delicate pink color and most delightful fragrance. Blooms when quite young.

3 to 4 feet, \$1.00

CYPRESS (E).

Lawson's.—Hardy, graceful, rapid growing evergreen, with feathery bluish-green foliage.

Specimen plants (See Cut). 75c to \$2.50 and up

For Hedges.—Small plants 8 to 18 inches; write for prices.

DAPHNE (E).

Superb evergreen shrub of compact growth, bearing in early summer many bluish white flowers, highly perfumed, and very lasting. The sweetest-scented shrub in existence. Hardy only west of the Cascades.

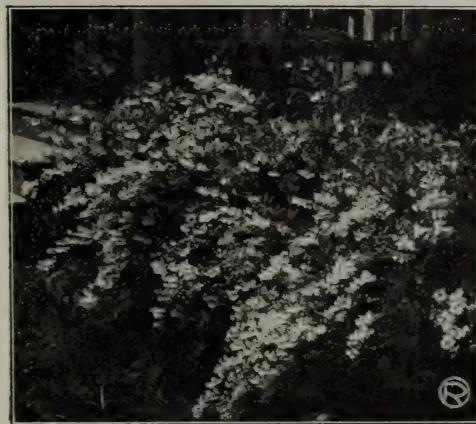
White, Pink or Lilac. Each \$1.00 to \$1.50

DEUTZIAS (D).

A showy class of shrubs of compact growth, luxuriant foliage and very free-flowering. (See cut.)

Cronata Fl. Pl.—4 to 6 feet; flowers in long spikes; white, tinged rose; very double and full. Each 50c to 75c

Gracilis.—Low-growing, compact; covered all over with pure white, bell-shaped flowers. Each 50c to 75c



Duetzia Gracilis.

Lemoinei.—Flowers very large and produced in broad-based, cone-shaped heads of from 20 to 30 flowers each, of purest white. Each 50c to 75c

Pride of Rochester.—Flowers very double and full; pure white, tinged with blush; great profusion. Each 50c to 75c

DICENTRA—Bleeding Heart.—See page 13.

DOGWOOD (D)—*Cornus*

Oregon (Cornus Nuttallii).—One of the handsomest of our native trees. A fine ornamental tree with large white flowers. Each 75c to \$1.50

SHRUB DOGWOODS.—These are most desirable on account of their pretty flowers and highly colored bark of the twigs and branches.

Paniculata.—White flowers and fruit. 3 to 4 feet. Each 75c

Sibirica (Red Siberian Dogwood).—A rare and remarkable variety, with bright red bark in winter. Each 60c to 75c

Spathi (Gold-leaved Dogwood). Each 75c

ELDER (D)—*Sambucus*

These are showy, large shrubs, ornamental in flower, fruit and foliage. Of easy cultivation.

Canadensis (Common Elder).—Broad heads of white flowers in June, and dark red berries in autumn. Each 50c to \$1.00

Cut-Leaved (laciniatia).—A very beautiful variety. Foliage curiously divided. 50c to \$1.00

Golden-Leaved (foliis aureis).—It has beautiful fern-like golden foliage, which retains its showy bright yellow color through the entire summer until late autumn. 75c to \$1.50

ELM (D).

One of our most popular and best shade trees. Very desirable for street planting.

American White.

6 to 7 ft. each 75c; 8 to 10 ft. \$1.00 to \$1.50

Cork Bark.

8 to 7 ft. each 75c; 8 to 10 ft. \$1.00 to \$1.50

Purple-Leaved.

6 to 8 feet each \$1.50

Weeping Elm (Camperdown).—One of the most beautiful and remarkable of weeping trees; low growing, branches extending horizontally. Priced according to size of head. Each \$1.50 to \$2.50

EULALIA.—See page 14.

EXOCHORDA (D)—Pearl Bush.

Grandiflora.—Produces large white flowers in May; one of the finest shrubs of its season. 2 to 3 feet each 60c to 75c

Cathlamet, Wash., May 10, 1912.

Routledge Seed & Floral Co.

Gentlemen: I received the last shipment of my roses this morning and was indeed very well pleased with everything I received from you. They were by far the nicest plants I ever bought. Yours truly,

MRS. M. GORMAN.



Lawson Cypress.

EUONYMUS (E)

- Sieboldii (Japonica).*—Leaves dark shining green. A fine plant for the lawn. \$1.50 to \$2.00
Aurea Variegata.—Leaves variegated green and gold. A very striking plant. \$1.50 to \$2.00
Atatus (D.)—Cork-bark; leaves red in fall. 75c
Europaeus (Spindle Tree—Burning Bush (D.)—A large shrub or tree, bearing rose-colored fruit in autumn; fine; 3 to 4 feet. Each 60c to 75c
Radicans (Trailing) (E.)—Very hardy, dense-growing; useful for covering old walls, etc., as it is self-clinging. Each 50c to 75c

FAGUS.—See Beech.

FIG (D).

- Grown both for fruit and ornamental.
 White or Black.
 4 ft. up, each 50c to 75c; extra large \$1.00 to \$1.50

FILBERTS (D).

These nuts do well on this Coast. We can supply Barcelona, DuChilly, the most popular sorts. 2 to 3 ft. each 35c to 50c; per 10, \$4.00; 100, \$35

Corylus Purple Filbert.—Large bush, with large, dark purple leaves; makes a very effective contrast when planted among green-foliaged plants. 3 to 4 feet each 75c to \$1.00

FLOWERING CURRENT (D.)—Rebis.

The Flowering Currents are gay, beautiful shrubs in early spring, and of the easiest culture.

Sanguineum.—Charming crimson flowers in early spring; fine variety. Each 50c to 75c

Aureum.—Beautiful yellow flowers; very fragrant, smooth, shining foliage. Each 50c to 75c

FORSYTHIA (D) GOLDEN BELLS.

Viridissima.—Blooms early in spring, before the leaves appear, when it is covered with golden, bell-like flowers. Each 60c to 75c

Suspensa (Weeping Golden Bell).—Somewhat pendulous in habit 60c to 75c

GENISTA (E) BROOM BUSH.

Scoparia (Scotch Broom).—Rapid growing hardy shrub; trusses of yellow flowers in May. Each 25c to 75c

Andreana.—Deep yellow and red. Each 75c to \$1.50

Juncea (Spanish).—New yellow variety, blooms all summer. Each, 3 feet, 75c

Alba.—A new early flowering white variety of good habit; very attractive. 3 to 4 feet. Each 50c to \$1.00

HALESIA (D)—Silver Bell; Snow Drop Tree.

Tetrapeta.—A beautiful large shrub, with pretty white bell-shaped flowers in May. One of the most desirable shrubs. Each 60c to 75c

HEDERA.—See Ivy, page 92.**HICKORY (D)**
Slow growing tree. Each \$1.00**HAWTHORN (D).**

A beautiful flowering shrub that grows to be a fair-sized tree; very desirable; fine foliage.

Alba Plena.—Double white. 75 to \$1.50 each
Paul's Scarlet.—Double scarlet, very rich. Each 75c to \$2.00

Double White or Red.

3 to 4 feet \$1.00; 6 to 8 feet \$1.50

Single White.—For hedge plants.

2 ft. each 20c; per 50, \$7.50; per 100, \$12.00

HOLLY (E)—Ilex.

Beautiful small specimen tree for lawn planting. Attractive all the year because of their broad, glossy, prickly leaves, but most beautiful from November to April, when laden with bright scarlet berries.

We have a fine lot of Hollies, both seedling and grafted stock. We also have at different times very large, fine specimens, with or without berries, from \$10.00 up.

English (Aquifolia).—Berry-bearing plants, per foot, \$1.00; nice plants, \$2.50 to \$6.00; seedling stock, per foot 75c; nice plants, \$1.50 to \$3.00; small plants, 4 to 8 inches, for large plantings, very cheap. Write.

Gold or Silver Margined : \$1.50 to \$3.00 and up

HONEYSUCKLE UPRIGHT.—See Lonicera, page 86.**HYPERICUM.**—See Perennial Plants, page 14.**HYDRANGEA HORTENSIA—D—**

A handsome half-hardy Japanese shrub; most frequently seen in tubs and pots, and does well in somewhat sheltered place. Ornamental foliage and beautiful flowers in large trusses. (See cut below.)

Hortensia Ajisai Var.—Large flowers; clear blue. 60c to \$1.00. Specimens, \$1.50 to \$2.00

Hortensia White.—Pure white; large flower. 60c to \$1.00; specimen \$1.50 to \$2.00

Hortensia Rosea.—A beautiful new pink from Japan. Each 75c to \$1.00

Hortensia Stellata Rubra.—A grand star-shaped flower, almost double; very beautiful rose and pink; not as hardy as others; excellent for forcing and pots. Each 75c to \$1.00

Hortensia Cyanoclada.—A new red flowering variety from Holland, said to be a beautiful strong grower. Each 75c to \$1.50

Schizophagma (Climbing Hydrangea).—(See Climbers.)

Paniculata Grandiflora.—The grandest as well as the most popular, of all shrubs, and hundreds of thousands of them are sold every year; excellent for hedges or massing; unsurpassed for the lawn; blooms in July and August, and continues in bloom for two or three months. The flowers are massive, cone-shaped, sometimes 10 inches in length, and changing from the original pure white to pink, and finally to a beautiful rich coppery red. (See cut next page.)

Small, 35c each; \$3.00 dozen; 2 to 3 feet, 40c to 60c; 3 to 4 feet, 75c; specimens, tree-shaped, each \$1.00 to \$1.50.



Hydrangea Hortensia (under the Trees)

JUNIPER (E).

Very desirable, generally grown in pyramidal form; foliage fine and beautiful.

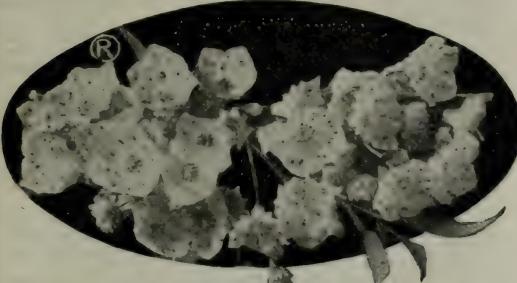
Compacta. 2 foot up \$1.00 to \$3.00
Irish. 1 ft. each 75c; 2 to 3 ft. \$1.00 to \$2.50

JUDAS TREE (D)—*Cercis*

Japonica (Red Bud).—Very showy.
Each 75c to \$1.00

KALMIA (E)—Mountain Laurel.

Latifolia.—A beautiful companion to the Rhododendron; beautiful flowers in clusters, pink changing to white; elegant foliage. Each \$1.50 to \$2.00



Kalmia Flowers (One-third Size)

KERRIA (D)—*Corochorus*

Japonica.—A green-branched shrub, 5 to 6 feet high; abundant yellow flowers from June to October.
Each 50c to 75c

LAUREL (E).

English.—A small tree, or bush, with handsome shining thick foliage. Excellent for large hedges or screens or as single specimens. 18 to 24 inch, each 75c to \$1.00; 2 to 3 ft., \$1.50.

Small, 12 to 18 in. and up, 50c to 75c. Write for prices in quantity for hedge.

Portugal Laurel (*Laurus Lusitanica*).—A small, intricately branched tree, with glossy leaves. Flowers white, disposed in slender racemes, appearing in late spring or early summer. 1½ to 2 feet.
60c to \$1.00

LABURNUM (D)—*Cytisus*

Laburnum (Common Laburnum, or Golden Chain).—Smooth and shining foliage. The name "Golden



Hydrangea, Paniculata, Tree-Shape



Single Lilac
(Budded Stock)

Chain" alludes to the growth of the drooping racemes of yellow flowers which appear in June.

Each 75c to \$1.00

LINDEN (D).

European.—Very desirable and beautiful tree for park or street planting; large heart-shaped leaves, white flowers.

5 to 6 ft. each 75c; 6 to 8 ft. \$1.00 to \$1.50

LILACS (D)—*Syringa*

Every one loves the lilac and no garden is complete without one or more. The new imported grafted varieties are very beautiful and produce magnificent large flowers.

Vulgaris.—Common White or Purple.

3 to 4 feet, 50c to 75c; large specimens, \$1.00 to \$2.00

Imported Budded Varieties.—Your selection following named varieties, 3 to 4-year-old select plants, 3 to 4 feet and up, \$1.00 to \$1.50.

Charles X (Single).—A strong, rapid grower; leaves dark and shining; trusses large and rather loose; color reddish purple.

Marie LeGrave (Single).—Beautiful creamy white flowers of immense size; bush of dwarf habit. One of the most popular white varieties.

Souvenir de Louis Spaeth (Single).—Immense trusses of a deep rosy purple; very choice.

Mme. Casimir-Perier (Double).—The finest double white Lilac. The individual flowers, as well as the truss, are of immense size, deliciously scented; fine for cutting.

Mme. Lemoine (Double).—Fine double white variety that is used extensively for winter forcing.

Michael Buchner (Double).—The best pale lilac or lavender.

President Grevy (Double).—Very large and double; beautiful blue panicles nearly a foot long.

LOCUST (D).

Black or Yellow.—A handsome, hardy tree; white flowers in June.

5 to 6 feet, each 50c; 8 to 9 feet, 75c to \$1.00

Honey Locust.—Rapid growing, sharp thorns; excellent for large hedges or fences.

2 to 3 feet 25c; 4 to 6 feet 35c to 50c; 8 to 9 feet 75c to \$1.00.

LONICERA (D)—Bush, or Upright Honeysuckle.

Tatarica (Tartarian Honeysuckle).—Pink flowers, which contrast most beautifully with the foliage. Red berries after flowers. Each 50c to 75c

Alba (White Tartarian Honey Suckle).—Its habit is the form of a high bush, with creamy white flowers; very fragrant. Each 50c to 75c

MAGNOLIA (E).

Grandiflora.—Their elegant habit and foliage alone would render them indispensable, but the flowers, their crowning beauty, are unequalled in size and showy effect among hardy trees and shrubs. A magnificent evergreen, with large, leathery green leaves, more than a foot long; bears large, fragrant white flowers. Each 75c to \$1.00; 3 to 3½ ft., \$1.50 to \$2.00.

MAGNOLIA (D).

Conspicua.—A Chinese species of great beauty; shrub-like in growth while young, but attains the size of a tree in time. The flowers are large, pure white, very numerous and appear before the leaves. 2 ft. each \$1.00; 3 ft. each \$1.50 to \$2.00 Specimens 3 to 4 feet, branched, \$3.50 to \$5.00.

Soulangeana.—In habit it closely resembles *Conspicua*; flowers white and purple, cup-shaped and three to five inches in diameter; foliage large, glossy and massive; blooms later than *Conspicua*.

Small, each \$1.00; large, each \$1.50 to \$3.00; specimens, \$3.50 to \$5.00.

Lennsei.—Foliage large; flowers cup-shaped, dark red or purple; very showy; finest of the purple Magnolias. Each 3 to 4 ft., branched, \$3.50 to \$5.00.

Obovata.—Has striking flowers, light purple, richly variegated with white. Each \$1.00 to \$1.50

Ballicifolia.—New species, called Fragrant Magnolia. The white flowers, as well as the leaves and bark, emit a sweet, aromatic perfume. Each \$1.00 to \$1.50

MAHONIA AQUIFOLIA (E)—Oregon Grape.

Native of Oregon, and our state flower. Very valuable and desirable on account of its beautiful foliage and clusters of yellow flowers in spring, followed by blue-black berries.

Choice plants, nursery grown, 50c, 75c, \$1.00

Write for quantity price.

MAPLE (D)—*Acer Japonica*.

Japanese.—A beautiful class of low-growing, shrub-like trees, having brilliant colored leaves, which retain their brightness from spring until fall. Nothing finer than these can be had for planting, either in groups or singly on the lawn. Their dense, compact growth, graceful habit and rich colored foliage make them favorites with all who see them.

Price: Any of the following varieties of Japanese Maples, choice plants, \$1.00 to \$2.00; specimen plants \$3.00.

Atropurpureum.—Deep maroon, palmate leaf.

A. Atropurpureum, Dissectum.—Deep maroon, richly fringed, thread-like leaflets, drooping nature.

A. Atropurpureum Variegatum.—Bright crimson, with deep maroon variegation.

A. Osaka-Zuki.—Light maroon, changing to blood red in fall; palmate leaf.

A. Aureum.—Circular-shaped, obtusely cut, yellow leaves.

A. Scopulendrifolium Rubrum.—Dark red, fine, ribbon-like leaflets.

MAPLE (D)—*Acer*.

Silver Variegated (A. Negundo Variegatum).—Most attractive; leaf is variegated white and green; at a distance it has the appearance of the whole leaf being a silver-white; an excellent lawn tree. 4 ft. each \$1.00; 5 to 6 ft. \$1.25 to \$1.50

Ash-Leaved (Box Elder or Manitoba Maple; A. Negundo).—A fine, rapid-growing variety, with handsome, light green pinnated foliage and spreading head; very hardy; desirable for street planting. 6 to 8 ft. each 75c to \$1.00

Norway (A. Platanoides).—Its large, compact habit, broad, deep green shining foliage, and its stout, vigorous growth, renders it one of the most desirable species for streets, parks and lawns. 6 to 8 ft. each 60c to 75c; 10 ft. up \$1.00 to \$2.00

Oregon (A. Macrophyllum).—A most graceful tree, with wide-spreading branches and large foliage; very rapid growth. 6 to 8 ft. each 60c to 75c; 10 ft. up \$1.00 to \$1.50

Purple-Leaved Sycamore (A. Pseudo-Platanus Purpureum).—Leaves deep green, purplish red beneath, producing a beautiful color effect when leaves are in motion. 6 to 8 ft. each 75c to \$1; 10 ft. up \$1.50 to \$2.00

Silver-Leaved, or Soft (A. Dasycarpum).—Native tree of rapid growth; foliage bright green above and silvery-white beneath. 6 to 8 ft. each 60c to 75c; 10 ft. up \$1.00 to \$1.50

Sugar, or Rock (A. Saccharinum).—Popular; its upright habit of growth, dense shade and adaptability to different soils have rendered it one of the most extensively used. 6 to 8 ft. each 60c to 75c; 10 ft. up \$1.00 to \$1.50

Sycamore (A. Pseudo-Platanus).—A noble variety; deep green foliage; a rapid, upright, free grower; excellent for lawns; fine for planting at the "coast." 6 to 8 ft. each 75c to \$1; 10 ft. up \$1.50 to \$2.00

Wier's Cut-Leaved Silver (A. Wierii Laciniatum).—Beautiful trees, with cut or dissected foliage; of rapid growth; shoots slender and drooping; graceful; foliage silvery underneath. 6 to 8 ft. each 75c to \$1; 10 ft. up \$1.50 to \$2.50

MOUNTAIN ASH (D).

Very ornamental trees, especially when covered with its clusters of red berries in the fall.

European.

6 to 8 ft. 50c to 75c; 9 to 10 ft. \$1.00 to \$1.50

Mountain Laurel, see Kalmia.

MULBERRY (D).

Downing's Everbearing.—This makes a fine tree for the lawn or garden, and its abundant supply of refreshing fruit increases its value greatly.

6 to 8 ft. each \$1.00 to \$1.50

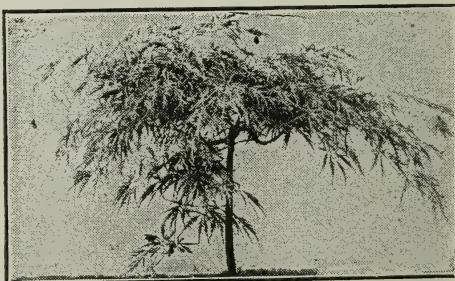
New American Sweet.—Dwarf, slender, branching variety; graceful and hardy; fine, large edible black fruit.

6 to 8 ft. each \$1.00 to \$1.50

Tea's Weeping.—Very graceful hardy; forms perfect umbrella-shaped heads, with long, slender, willowy branches, drooping to the ground; beautiful, healthy foliage.

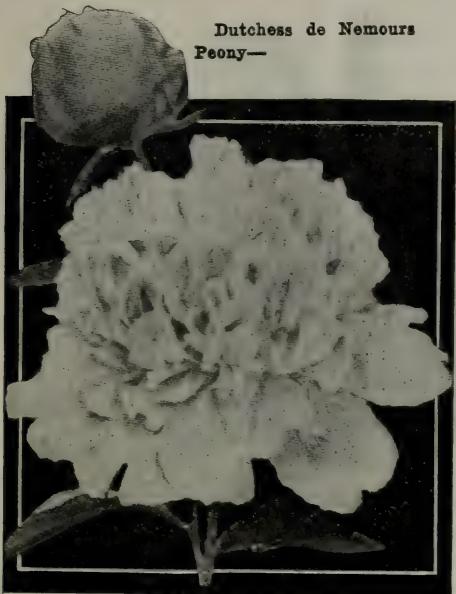
Grafted 1-year heads, \$1.50; 2 years and over, according to the shape of heads, \$2.00 to \$5.00 up

PAMPAS GRASS.—See page 15.



Japanese Maple Dissectum.

WE HAVE, at our salesrooms, COLORED PLATES of most of the leading Fruit, Shade and Ornament Trees and Shrubs. ASK TO SEE THEM. They give you a better idea than a brief description.



PEONY MOUTAN (D)—Tree Peony.

A small tree-shaped shrub, which in May is covered with dozens of massive blooms; it presents a magnificent display. We have Cream, Crimson, Pink, Scarlet, Rose and Variegated.

Each 75c; strong plants \$1.00 to \$1.50 each

PEONY (D)—Double Herbaceous.

One of the most beautiful flowering plants, blooming in May and June. The new varieties are simply gorgeous. Once planted they increase in size and profusion of bloom. Most desirable and beautiful for hedges, groups or individual planting.

Single price is postpaid

Festiva Maxima.—One of the grandest varieties in existence. A beautiful pure white, sometimes tipped carmine on the center petals. Flower enormous in size, very full and double.

50c each; \$5.00 per dozen

Festiva Alba.—One of the best medium early, pure white. Stands handling and shipping well.

Each 30c; dozen \$3.00

Officinalis Rubra.—Flowers of a bright scarlet crimson; quite double and globular; very early, rare and fine.

Each 30c; dozen \$3.00

Officinalis Alba.—Early white.

Each 35c; dozen \$3.50

Officinalis Rosea.—Early, rosy pink.

Each 30c; dozen \$3.00

Couronne d'Or.—Large imbricated bloom, white reflexed yellow; center petals bordered carmine. A most distinct and striking variety.

Each 50c; dozen \$5.00

Duchesse de Nemours.—A superb ivory-white variety of our finest quality. Each 50c; dozen \$5.00

Edouard Andre.—Immense globular bloom of a deep crimson red, with metallic reflex; very brilliant golden yellow stamens, forming a striking contrast.

Each 50c; dozen \$5.00

Floral Beauty.—Quite early; a beautiful light pink, shading to cream in the center; very desirable.

Each 30c; dozen \$3.00

Queen Victoria.—A rosy white, with yellowish center. Quite free flowering.

Each 30c; dozen \$3.00 per dozen

Peonia Tenuifolia fl. pl. (Fringed or Carrot Leaved.) Distinct; handsome divided foliage; flowers large, very double and of a deep blood-red; a dwarf, compact bloomer. 50c each; \$5.00 dozen

PERSIMMON (D).

Highly prized for its delicious fruit.

Japanese.—Fruit large and oblong; color bright red; ripens early in the fall. 3 to 4 feet 50c to \$5c

PHILADELPHUS (D)—Mock Orange or Syringa.

Popular shrubs. They are usually tall, vigorous growers, with large foliage and flowers, and are valuable for backgrounds, screens, grouping and specimens. Flowers are sweet-scented, milk-white and bloom in May and June.

3 to 4 feet 50c to 75c

POPLAR (D).

These well-known trees are planted largely for windbreaks, ornamental purposes and street planting, although not desirable near cement walls.

Carolina.—Vigorous growing variety; should be cut back to spread the head.

4 to 6 ft. each 50c; 7 to 9 ft. 80c to 75c

Special low prices in quantity.

Lombardy.—Very rapid, erect growing tree, with tall, spiral form.

50c to \$1.00 each

PRUNUS (D).

Among the most beautiful deciduous hardy shrubs of Japan are the flowering plums, peaches and cherries. Fine for small and large lawns. They flower profusely very early in the spring before the leaves appear; excellent for cutting.

Mume.—Fragrant and beautiful; very early.

Double White, Pink or Red, each 75c

Persia (Peach).—Beautiful, but not fragrant.

Double White, Pink or Red, each 75c

Cerasus (Cherry).—Exquisite flowers in May.

Double White, Pink or Red, each 75c

Pissardi.—The purple-leaved plum of Japan; growing into a shapely small tree of much merit. Covered in the spring with clouds of white flowers, followed by leaves, which turn a beautiful bronzy purple color, remaining beautiful a long time.

Each 75c to \$1.00



Privet Hedge.

PRIVET (Evergreen).

One of the best hedge plants; has small, pointed, evergreen leaves; grows rapidly and compactly; stands severe pruning, and can be kept in fine shape with little care. (See cut.) 1-year-old plants, 12 inches, each 4c; per 50, \$1.75 per 100, \$3.00. 2-year-old plants, 1½ to 2 feet each 8c; per 50, \$3.50; per 100, \$6.00.

Aurea Variegatum.—Leaves delicately margined with golden-yellow, very showy. Specimen plants 3 to 4 feet.

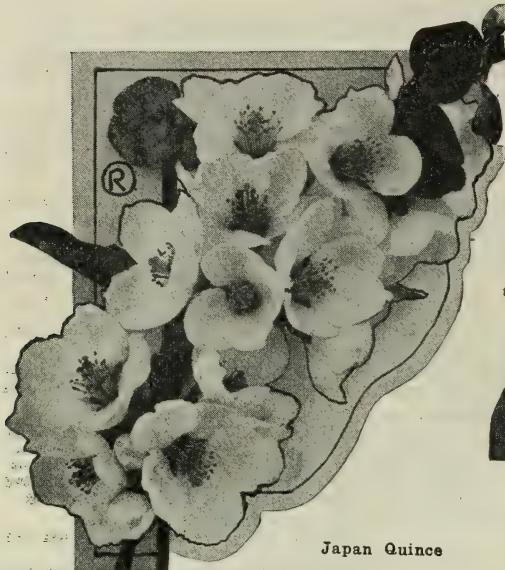
Each \$1.00 to \$1.50

PURPLE FILBERT.—See Filbert.

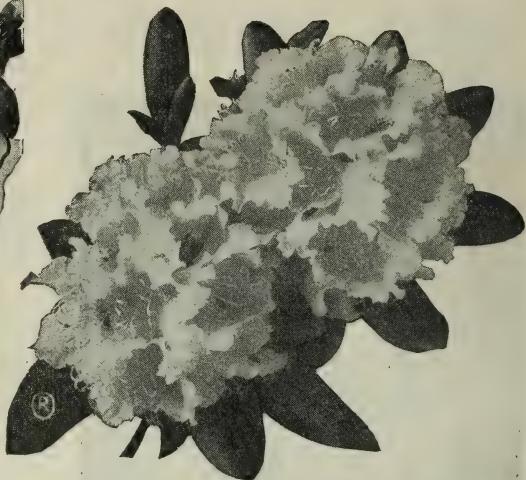
NOT CATALOGUED

WE IMPORT EACH YEAR SEVERAL CAR- LOADS OF HOLLAND AND JAPANESE ORNAMENTAL SHRUBS AND TREES AND HAVE MANY THINGS NOT CATALOGUED. WRITE OR CALL IF YOU WANT SOMETHING NOT LISTED. WE MAY HAVE IT, OR WILL GLADLY GET IT FOR YOU.

Our prices are for large, hardy field grown shrubs—not yearlings, cuttings or greenhouse plants. They are worth all we ask. Don't compare our prices with cheap Eastern mail order houses.



Japan Quince



Rhododendron (Flowers one-fourth Size)

QUINCE (D)—Cydonia.

Japonica (Japan Quince).—Popular shrub, which blooms profusely in early spring; flowers dazzling scarlet; makes an excellent hedge.

Each 50c to 75c

Japonica Alba.—White flowers; same price.

RETINOSPORA (E)

One of our most showy and graceful evergreens. There is a large class of Retinosporas, but the most popular are those of compact tufted character. Choice, well-shaped plants in Green or Golden, 1 to 2 feet. \$1.00 to \$2.50 and up



RHODODENDRON PLANT.—

"Balled in earth." Can be moved any time from October to June.

North Bend, Ore., April 14, 1912.
Routledge Seed & Floral Co.

Dear Sir: The shipment of trees and shrubs, also vines I received, are growing fine and I never saw a better lot of plants in my life. Everything is O. K.

Yours truly,
W. W. CHAMBERLAIN.

RHODODENDRONS (E).

This, wherever known, is universally acknowledged to be the most showy, magnificent, hardy evergreen shrub that grows. It will thrive in any good soil without any special preparation, and in the full blaze of the sun, but it is more luxuriant in good, well-prepared soil and in partial shade. The broad, thick, evergreen foliage, with its glossy richness, would alone entitle it to a place foremost in the rank of evergreen shrubs, but when, in May and June, this mass of luxuriant foliage is almost hidden by the magnificent array of beautiful flowers in all colors from white to purple, the effect is simply grand. We import from Holland the choicest and best named varieties.

Good Plants.

1½ to 2 ft. each \$1.50

Choice Named Varieties.—Strong and bushy, well set with flower buds that will flower nicely the first year; your selection of colors in White, Pink, Rose, bright or dark Red, Lavender, Rosy Lilac or Purple. Each \$2.00, dozen \$20.00 Extra large specimen plants, \$3.00 to \$5.00 each.

Native.—This is the variety that grows wild in the mountains along this Coast. Flowers pink or rose. Nursery-grown, each \$1.50

ROSE OF SHARON.—See Althea.

SCIADOPITYS (E)—Verticillata (Umbrella Pine).

A Japan evergreen, foliage needle-like, in whorls, dark green. Each \$1.50 to \$3.00

SCOTCH BROOM—(See Genista).**SMOKE TREE—*Rhus***

Purple Fringe or Smoke Tree.—Much admired for its feathery inflorescences that cover the whole surface of the tree in midsummer. Each 75c to \$1.00

White Fringe.—Has drooping racemes of pure white flowers; a superb lawn tree. Each 75c to \$1.00

SPRUCE (E)—*Abies*.

Excelsa (Norway Spruce).—One of our most popular evergreens. Very desirable for single specimens in the lawn and largely used for screens and wind breaks on account of its rapid growth. Foliage dark green.

Specimen plants, 75c to \$2.50 each; for hedges 20c to 60c according to size.

Fungens, Glauca-Kosteri (Colorado Blue).—A beautiful variety on account of its magnificent rich, silvery blue color. We offer only the "true blue" imported from Holland.

Small plants \$1.50 to \$2.00; 3 feet up \$5.00 to \$7.50



Spirea Thunbergii

SPIREAS (D).

Graceful shrubs, every one should plant. They are of the easiest culture, and very desirable in collections. All the Spireas bloom with a riotous extravagance which makes them quite striking. Their individual style, color and habits of growth differ so markedly, that a collection of varieties will ensure bloom the entire season and still evade the monotony of repetition.

Anthony Waterer.—Covered nearly the whole growing season with large umbels of deep crimson flowers. Each 50c to 75c

Prunifolia (Bridal Wreath).—Slender, erect ingrowing variety, bearing very early in the spring, small double white flowers the entire length of its branches; very graceful habit. Each 50c to 75c

Van Houtte.—The grandest of all the Spireas. It is a beautiful ornament for the lawn at any season, but when in flower it is a complete fountain of white bloom, the foliage hardly showing; perfectly hardy and an early bloomer. (See cut.) Each 50c to 75c

Tunbergii.—Of graceful habit; the branches are slender and somewhat drooping; foliage yellowish-green; flowers small, white, appearing early. (See cut.) Each 50c to 75c

Billardii.—Produces fine, rose-colored flowers and blooms nearly all summer. (See cut.) Each 60c to 75c



Spirea Van Houtte

Naches, Wash., April 16, 1912.
Routledge Seed & Floral Co., Portland, Ore.

Gentlemen: Strawberries and Rhododendrons received—everything in most excellent condition.

Very truly,

W. GOODSELL.



Colorado Blue Spruce (Kosteri)



Spirea Billardia (Flower Spike)



Viburnum Plicatum—Japanese Snowball.

SUMAC (D)

Cut-Leaved Sumac (*Rhus Glabra Laciniata*).—A beautiful shrub, with large leaves, deeply and finely cut, and drooping graceful habit. Leaves assume a gorgeous crimson color in autumn. 75c to \$1.00

SYMPHORICARPUS (D)—Snowberry

Highly valued for use in densely shaded situations where little else will grow, and for the striking beauty of their bright, persistent fruits. 3 to 5 feet. (See cut.)

Racemosus (Snowberry).—Inconspicuous, rose colored flowers in June and July; followed by large, clustered, milk white fruits which remain far into the winter. 50c to 75c

Vulgaris (Indian Currant).—Similar to the Snowberry except that its fruits are red, and that the smaller red berries cluster in thickly about the stems and branches. 50c to 75c

THUYA.—See Arborvitae.

TAMARIX (D)—Tamarisk.

Shrubs of light green, feathery foliage, thriving in light, sandy soil.

Africana.—Pink flowers.

Each 50c to 75c

TULIP TREE (D).

A rapid-growing tree, with rich, glossy foliage; flowers tulip-shape, greenish-yellow; a fine shade tree. 4 to 6 ft. each 75c; 6 to 8 ft. each 75c to \$1.00



Symphoricarpus (Snowberry)

LANDSCAPE ARCHITECTS AND GARDENERS

We are in close touch with the best landscape architects and gardeners in the West, and no matter how small or how elaborate a garden, lawn or park you want laid out, we will put you in touch with an artist equal to the occasion, if you give us an idea of what you want. This is free service to our customers. You make your own arrangements with the person sent, as to plans, labor, etc.

TREE PEONY.—(See Peonies.)**VIBURNUM (D)—Snowball.**

Sterilis (Common Snowball).—Blooms in latter part of May. Flowers pure white, large balls, frequently borne in clusters. 3 to 4 ft. each 50c to 60c; 6 ft. 75c to \$1.00; extra choice plants \$1.50

Plicatum (Japanese Snowball).—One of the most charming hardy flowering shrubs in existence; bears great wreaths and clusters of pure white globular masses of flowers; covered with bloom for weeks in the spring; grows 4 to 6 feet high; entirely hardy. 2 ft., 60c to 75c; 3 to 3½ ft., 75c to \$1.00

Viburnum Lantana (Wayfaring Tree).—White flowers in large dense cymes; fruits bright red, changing to a much darker shade with age. Each 60c to 75c

Opulus (High Bush Cranberry).—Handsome and dense foliage; flowers white in drooping flat cymes followed by brilliant scarlet fruit in showy pendulous bunches that remain on the plant all winter. Each 60c to 75c

WILLOW (D)—Salix

Americana Pendula.—A low-spreading tree, with graceful, flexible, pendulous branches and fine foliage. This is also known as the Fountain Willow. Each 60c to \$1.00

Babylonica (Babylonian or Weeping Willow).—Foliage is bright green and has a wavy appearance. A well-known and graceful variety. Each 60c to \$1.00

Caprea Pendula (Kilmarnock Weeping Willow).—Very distinct and ornamental. Large, dark green leaves; branches droop to the ground. \$1.00 to \$2.50

Cooks, Wash., April 10, 1912.
Routledge Seed & Floral Co.

Dear Sirs: I am enclosing you another order for potatoes. I must say that I am very well pleased with the order you sent me. Everything came in first-class shape and you will get all my orders from this on.

Many thanks for the premiums—they were fine.

Yours respectfully,

F. G. WILSON.

WALNUTS (D).

American Black (*Juglan*). 4 to 6 ft. each 60c to 75c

English or French.—We have a fine lot of one and two-year-old trees (the best age to plant). These are nut-bearing, second-generation stock, and of the best varieties for this Coast.

Prices: 1 year, 80c each, \$2.50 per 10, \$22.50 per 100. 2 years 40c each, \$3.50 per 10, \$30.00 per 100. 2 years, 3 to 4 ft. 60c each, \$5.00 per 10 4 to 5 ft. 75c each; 6 to 8 ft. \$1.00 each

Write for our very low prices by the thousand.

WEIGELA (D).

Beautiful shrubs that bloom in May, June and July. The beautiful trumpet-shaped flowers are produced in so great profusion as to almost entirely hide the foliage. They are very desirable for the border or for grouping, and as specimen plants for the lawn. (See illustration.)

Candida.—Beautiful white flowers; a continuous bloomer. Each 60c to 75c

Eva Rathke.—New. A remarkably free bloomer. Very distinct color, being a rich reddish purple, quite different from anything heretofore offered. Each 60c to 75c

Rosea.—Lovely large, rose-colored flowers, borne in such profusion that the whole bush appears a mass of rosy bloom. Each 60c to 75c

Rosea Variegata.—Leaves beautifully margined creamy white; handsome pink flowers in wonderful profusion. Each 60c to 75c

YEW (E)—*Taxus*.

English (*Baccata*).—Small tree of slow growth and very bushy head, branched and thickly covered with somber green leaves; can be trimmed into any shape. 1 ft. up \$1.00 to \$3.00

Irish (*Hibernica*).—Peculiarly upright in growth; foliage dark. 1 ft. up \$1.00 to \$3.00

Irish Golden.—Leaves green in the center and margined with yellow. 1 ft. up \$1.00 to \$3.00

Japanese *Cuspidata* (Pointed Yew).—Japanese variety of dense, bushy habit and dark green foliage. 1 foot up, \$1.00 to \$3.00

PERENNIAL FLOWERING PLANTS.

They are of easiest culture hardy, flower each season and produce a profusion of flowers excellent for cutting or decorating. See pages 12 to 16.



Yucca.

YUCCA (E)—Adam's Needle.

A stately foliage and flowering plant equally imposing in solitary or group plantings, always conspicuous. The broad sword-like foliage is evergreen; while midsummer shows great erect branching stems bearing a showy display of pendant, creamy-white bells. 1-year plants, 8 to 10-inch, 20c each, \$2.00 dozen; 2-year and up, 35c to 50c; 15 to 24-inch, 75c to \$1.00; specimen plants, \$1.50 to \$8.00.

Klamath Agency, Ore., April 15, 1912.

Routledge Seed & Floral Co.

Gentlemen: My order came Saturday in good condition and I was very well pleased with it.

Sincerely yours,

CLARA SHIERER.

Rainier, Wash., March 31, 1912.

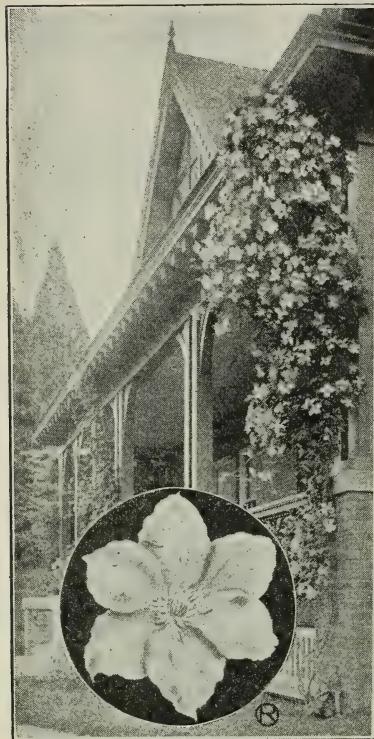
Routledge Seed & Floral Co.

Gentlemen: I received my order last night in fine shape. I was very well pleased with the premiums, especially the dahlias.

Yours truly,

HOWARD BUNGARD.

HARDY CLIMBING AND TRAILING VINES



Clematis Jackmanii Vine and Single Flower, $\frac{1}{4}$ Size.

HYDRANGEA—Climbing.

Schizophragma.—This, like the ivies, climbs by means of aerial rootlets, covering tree trunks, walls, etc. The flowers are similar to a white Hydrangea, and when in flower in the summer months makes a beautiful display.

Large Plants, each \$1.25 to \$2.00

IVY.

Common English.—Thick, leathery, evergreen leaves; strong grower. Good roots each 25c, \$2.00 dozen

JASMINE.

Nudiflorum.—A handsome climber, with fragrant golden yellow flowers. Each 50c to 60c

Officinale.—Fragrant white flowers. Each 50c to 60c

PASSION VINE.—Very beautiful flowers. Each, 50c

TECOMA (D)—Trumpet Vine, Begonia.

Grandiflora.—Flowers large, orange red; beautiful; excellent climbers. Each 50c to 75c

Radicans (Common Trumpet Vine).—A splendid climbing vine, with large, brilliant orange-scarlet flowers in July and August. Each 50c to 75c

VINCA.—Myrtle. Each 15c to 25c

VIRGINIA CREEPER.—See Ampelopsis Quinquefolia.

WISTERIA.

A rapid, hardy climber, that will grow to a height of 50 feet or more. The fine foliage and flowers are produced early in the season, and come in magnificent clusters. Prices, following varieties: Strong 2-year-old plants 50c to 75c each; imported, 4 to 5-year balled plants, will flower first year, \$1.50 to \$2.50.

Sinensis, Blue or White.—Lovely long panicles of flowers, produced in the most wonderful profusion.

Multijuga.—This valuable new Wisteria was introduced from Japan, and produces magnificent racemes of lovely purple flowers, often measuring 15 inches in length.

Multijuga Alba.—Like the preceding; best pure white.

CLEMATIS.

Paniculata (New Sweet-Scented Japan Clematis).—A vine of very rapid growth, quickly covering trellises and arbors with handsome, clean, glossy, green foliage. The flowers are of small size, pure white, borne on immense shoots, and of a most delicious and penetrating fragrance.

Small plants, 25c; strong 2 to 4 year old plants, 35c to 75c each.

Large-Flowered.—These bear large and beautiful flowers of various shades of color through the greater part of the summer and fall. They should have a rich, loamy soil. They do much better than roses on the north side of a house. The following varieties are the very best and our plants are all two years old. Strong roots, 75c each; 3 for \$2.00; 5 kinds, \$2.75

Henryi.—Fine, large, creamy white flowers.

Jackmanii.—Intense violet purple; most popular variety.

Ville de Lyon.—The best bright red; equal to Jackmanii in size.

Lawsoniana.—The best light blue or lavender.

Duchess of Edinburgh.—A free-flowering double white variety; very fragrant.

AMPELOPSIS.

Veitchii.—The leaves of this beautiful climber, resembling in shape the English Ivy, overlapping each other closely, are of a bright green color, changing in the fall to the most vivid autumn tints, gold, purple and scarlet, remaining so a long time before they drop. Large plants, 35c to 50c each

Quinquefolia.—The well-known Virginia Creeper. A vine of rapid growth, with large, luxuriant foliage, which in the fall takes on the most gorgeous coloring.

2 year, 35c extra; large 3 and 4 year, 50c to 75c

BIGNONIA. (See Tecoma below.)

DUTCHMAN'S PIPE (Aristolochia Sepho).

A strong, rapid growing vine with handsome light green leaves. It will give a quick, dense shade, and is much used on arbors and trellises. The brown flowers are shaped like the bowl of a pipe. Large plants. Each 75c to \$1.00

HONEYSUCKLE.

A beautiful climber, rapid grower and very desirable; flowers very fragrant, and produced in great profusion.

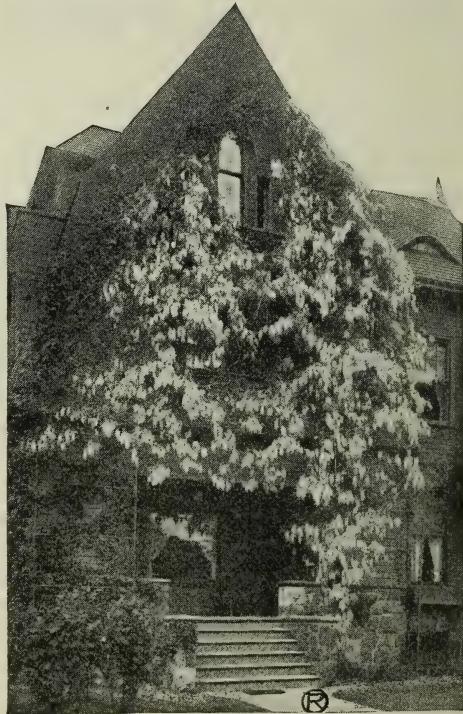
Halleana.—Most popular; almost evergreen; profuse bloomer; flowers buff-yellow, passing to white; deliciously sweet.

2-year-old plants, 50 to 75c each

Belgica (Monthly Fragrant).—Flowers large and very fragrant; color red and yellow. Strong 2-year. Each 50c to 75c

Semperfervens (Scarlet Trumpet Honeysuckle).—Trumpet-shaped flowers of bright scarlet. Strong 2-year. 50c to 75c

Flava (Yellow Trumpet).—A choice but scarce species, with bright yellow flowers. Each 50c to 75c



Wisteria Vine in Bloom

FRUIT TREES, BUSHES, VINES AND PLANTS

We are making a specialty of select fruit stock. This branch of our business has made immense growth. Our manager has been in this line of work in Oregon for over 20 years. Aside from large stocks grown for us on contract, we are in close touch with the largest, most reliable and careful growers. We know where the best stock is produced.

The expert in charge of our Nursery Department has, for years, been actively engaged in growing, selling and buying fruits in Oregon and Washington for the past ten years, and knows "what's what."

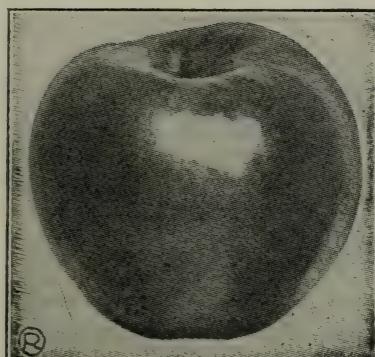
We are always glad to give you the benefit of our experience as to varieties for the different sections, planting, pruning, etc., and solicit your orders, whether large or small.

We again call your attention to the fact that we are catering to the "Particular Planter," who wants "High Quality," and is willing to pay a price necessary to secure it. Any sensible person knows that "Highest Quality" in stock of any kind is more expensive to produce than common, and therefore is worth more. Our prices are low, quality considered.

Low prices by the 100 or 1000—write, we'll save you money. Commercial planters often use smaller grades which we can sell very cheap.

SUBSTITUTION

If the varieties of the tree ordered cannot be supplied or bought locally, others equally as good and correctly labeled will be substituted, unless otherwise ordered.



NOTE.—On this and the following pages you will note that we give full description of only a few varieties under each heading. These, we believe, are the best for general or home planting, and you will not miss it by selecting them. We, however, can supply almost any variety grown, whether catalogued or not, so you can order any kind you want.

APPLES

	Each.	Doz.
Two-year-old	\$0.30	\$3.00
One-year-old, 4 to 6 feet.....	.25	2.50
One-year-old, 3 to 4 feet.....	.20	2.00
Selected	35c to .50	

Write for our low prices by 100 or 1000.

DWARF APPLES. Each 50c; dozen \$5.00

SUMMER VARIETIES

RED ASTRACHAN.—Large, deep crimson, flesh white, moderately juicy, with an agreeable rich acid flavor; very productive.

YELLOW TRANSPARENT.—Medium size, roundish, slightly conical; skin pale yellow, flesh tender, juicy, sub-acid; good.

SUMMER PEARMAIN.—Skin red, spotted with yellow, and streaked with red; flesh tender, juicy and rich; August.

Golden Sweet.—Large, pale yellow; tender, rich.

Red June.—Early, deep red; good; medium size.

TETOFSKY.—Trees bear very young and every year; hardy as a crab; fruit good size; nearly round; yellow, beautifully striped with red; flesh white, juicy, pleasant, acid, aromatic; July and August.

Early Harvest.—Medium size; bright straw color.

Duchess of Oldenburg.—Large, yellow, streaked red.

AUTUMN VARIETIES

GRAVENSTEIN.—Large, beautiful yellow, dashed with deep red and orange; tender and crisp, with a highly aromatic flavor; tree very vigorous; very popular sort.

Fall Pippin.—Very large, yellowish green.

Famous (Snow Apple).—Greenish-yellow, streaks of red; medium size, and juicy.

Gloria Mundi.—Very large; greenish yellow; October.

RED BEITIGHEIMER.—Very large, roundish, inclined to conical; skin pale, cream color ground, mostly covered with purplish crimson; flesh firm, white, with brisk sub-acid flavor; a strong grower and heavy bearer.

Maiden's Blush.—Yellow, with red cheek; excellent.

Twenty Ounce.—Large and showy; good.

Waxen.—Pale yellow; flesh crisp, tender; medium.

WINTER VARIETIES

BALDWIN.—Large, rounded; deep, bright red; very productive; one of the best and most popular winter apples.

BEN DAVIS.—Medium to large; yellowish, almost entirely overspread with two shades of red; flesh white, tender, juicy; pleasant sub-acid.

NORTHERN SPY.—Large, round, greenish-yellow, stripes of purplish red; flesh white, juicy, brisk sub-acid; valuable for market and cooking.

ORTLEY (White Bellflower).—Fruit medium to large, yellow; sometimes with a sunny cheek; flesh white, fine-grained, tender, juicy, sub-acid.

SPITZENBERG.—Large, oblong; yellowish ground with broken stripes of bright red; flesh yellow, juicy with a delicious rich flavor.

Arkansas Black.—Dark maroon; long keeper; good.

Blue Pearmain.—Dark purplish red; very large.

Grimes' Golden.—Of highest quality; large, yellow.

Gano.—Form conical; deep red, shaded to mahogany.

Golden Russet.—Medium, dull russet; excellent.

Jonathan.—Yellow, covered with red stripes.

KING OF TOMKINS COUNTY.—Very large, globular; yellowish, shaded with red; flesh yellowish, rather coarse, juicy, rich flavor.

WINTER BANANA.—Winter; yellow; blush cheek; sub-acid; medium size; a good keeper; a handsome apple; fine flavor, tender and delicious.

YELLOW BELLFLOWER.—Large, oblong, yellow, sometimes a blush in the sun; flesh firm, crisp, juicy, sub-acid; tree a good grower and very productive; succeeds well in this valley.

YELLOW NEWTON PIPPIN.—Large, skin smooth, golden yellow; flesh firm, crisp, juicy; one of the standard varieties.

Mammoth Black Twig.—Very large, bright red.

Rhode Island Greening.—Greenish-yellow; large.

Rome Beauty.—Large, yellow, shaded bright red.

Tolman's Sweet.—Whitish-yellow, tinged red.

Wealthy.—Yellow, shaded with deep red.

Winesap.—Yellow ground, streaked with red.

Wolf River.—Greenish yellow, shaded red.

For New Apples of Special Merit, See Next Page.

SPRAY PUMPS

Every fruitgrower needs a Spray Pump. We have an excellent line that we'll guarantee to give satisfaction. See pages 102 to 106.

APPLES—Continued

NEW APPLES OF SPECIAL MERIT

DELICIOUS.—A splendid apple; coming into prominence rapidly. Tree vigorous and hardy and the fruit equals the name in every respect. Fine for market and home use; late; keeps till April. Each 50c; selected 75c

WINTERSTEIN.—A winter apple of the Gravenstein type; flesh yellowish, very tender, rich, spicy, sub-acid; highest quality, with a flavor all its own. Originated by Luther Burbank, of California. Should be planted by every one desiring fruit of high quality. Each 50c; selected 75c

MULTNOMAH.—(New.) A grand new sort. Originated by H. A. Lewis. Fruit large; color red, striped yellow; flesh white and fine and of sub-acid flavor; extra long keeper and in its prime from February to June; the coming apple for long distance shipment and Oriental trade.

Each 50c; selected 75c

OPALESCENT.—Probably the handsomest apple ever introduced; color red; skin smooth; flesh yellowish, tender, juicy and good; a beauty; all right for size, quality and productiveness.

Each 50c; selected 75c

CRAB APPLES

Nice stocky trees, selected, 50c each; 2-year 40c; 1-year 25c

TRANSCENDENT.—Fruit very large, skin yellow, striped with red; the best of its class for cider.

Yellow Siberian.—Fruit small, golden yellow.

FLORENCE.—Size medium, red striped, early bearer; bearing full crop each year; tree immensely productive; juicy and crisp; the best for home garden.

Hyslop.—Large, dark crimson; popular.

APRICOTS

	Each	12	\$8.75
2-year-old	\$0.40	\$8.75	
1-year-old, 4 to 6 feet	.25	2.75	
Selected	.50		

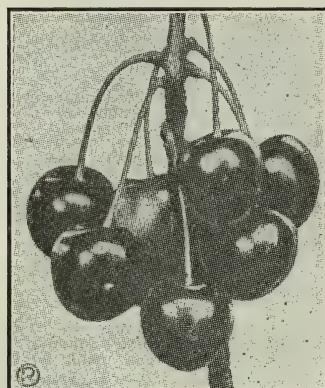
MOORPARK.—Very large, yellowish-green; brownish-red on the sunny side; flesh bright orange; fine for canning and drying; freestone.

LEWIS.—One of the largest apricots known; handsome in appearance; flavor excellent. If you have room for only one apricot tree, plant the Lewis.

Price, 1-year 75c; 2-year \$1.00

Royal.—Above medium size; sweet, rich and juicy.

Tilton.—Large, rich color, high flavor; very productive.



CHERRIES

	Each	Doz.
Two years old	\$.50	\$5.00
One year old, 4 to 6 feet	.45	4.50
One year old, 3 to 4 feet	.35	3.50
Selected	.75c to 1.00	

Write for our low prices by 100 or 1000.

BING.—Originated in Oregon; fruit large, dark brown or black; very fine; late; a good shipping variety.

BLACK TARTARIAN.—Of large size; flesh purple, half-tender and juicy.

BLACK REPUBLICAN (Lewelling).—Seedling, raised by Seth Lewelling, of Oregon; large size, black, sweet, with purplish flesh; late, and a good shipper.

ENGLISH MORELLO.—Medium to large; blackish red; rich, acid, juicy and good; very productive; August.

MILLERS LATE.—This new Cherry resembles the Late Duke in color, shape and flavor, but it is a larger and later variety, which makes it very valuable and desirable.

OREGON.—Large, black, solid, free, vigorous and productive; a fine shipper.

ROYAL ANN (Napoleon Bigarreau).—A magnificent Cherry of the largest size; pale yellow, becoming amber in the shade; richly dotted and spotted with deep red, and with a bright red cheek; flesh very firm, juicy and sweet; tree a rapid grower and immense bearer.

KENTISH (Early Richmond).—Light red, juicy; one of the best acid cherries, and unsurpassed for cooking purposes; very productive.

LATE DUKE.—Large, light red; late and excellent; sub-acid.

LAMBERT.—Fruit of largest size and of fine quality; color deep, rich red; flesh firm and of fine flavor; a fine market variety; ripens two weeks later than Royal Ann.

MAY DUKE.—Large, rich, dark red; flesh tender, juicy and sub-acid; an excellent variety, and one of the earliest of its class.

NEW GIANT—Originator's Own True Stock

No one could wish for a finer flavored Cherry. It is a most desirable variety for all purposes. Fruit extra large, flesh rich, dark red, firm, yet juicy and delicious. Ripens after the Lambert. On account of its lateness, it generally escapes the late spring rains that often injure the other main crop varieties. If you can only plant one Cherry Tree, plant a Giant.

We have bought all of the one, two, three and four-year trees of this grand new Cherry that the propagator, Mr. Kallish, has, and made arrangements for his future stock, so if you want the True, Genuine, New Giant, order direct from us. Each tree will be tagged with a printed label, New Giant, on one side and our name on the back. Always demand it. This will protect you from substitution. We offer the following sizes:

Prices—Selected budded trees, 1 year, 50c; 2-year, \$1.00; 3-year, \$1.50; limited number of 4-year specimens, \$2.50 each.

SAVE MONEY—Get your neighbor to order with you.. You save freight charges, get the benefit of quantity prices, and we will give you regular agent's commission on the additional orders.



HOME FRUIT COLLECTION

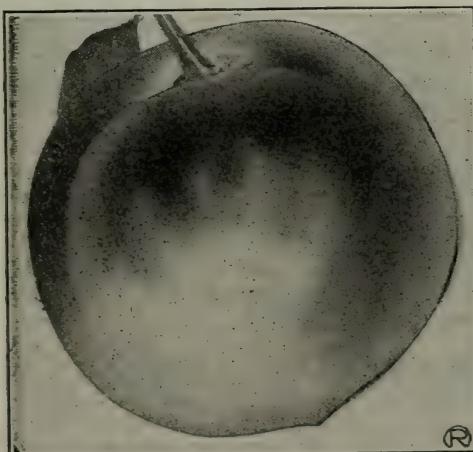
We have decided to offer a Home Fruit Garden Collection at a special low price to introduce our stock and induce more Home Owners to plant Fruit. There are thousands of Suburban, Country and Mountain Homes that should Have a Fruit Garden. This collection of trees and plants can be properly set out around the average home. (Don't delay; order now.) Think of the nice, juicy, fresh fruit this collection will yield, from early Spring until Christmas, fruit every day for your table. Isn't that worth \$5.00?—less than two cents a day the first year, thereafter nothing but the care. If your ground is limited, the small plants, berries, etc., are to be planted between the trees. You do not have to wait two or three years, but get fruit the first season, and every season while you wait for Apples, Cherries and Pears to come into bearing. Should you sell your place at any time this choice fruit collection would add \$100 value to your place. "That's a fact."

WHAT YOU GET FOR \$5.00.

TEN FRUIT TREES, 86 BERRIES AND PLANTS. EACH TREE LABELED.

The collection consists of 2 APPLES, one Summer, one Winter; 2 CHERRIES, one sweet, one sour; 1 APRICOT, 1 PEAR, 1 PLUM, 1 PRUNE, 1 QUINCE, 1 PEACH, 6 GOOSEBERRIES; 6 Currants, 2 MAMMOTH BLACKBERRIES, 2 GRAPES, 2 LOGANEERRIES, 2 PHENOMENAL BERRIES, 12 RASPBERRIES, 4 RHUBARB, and 50 STRAWBERRY PLANTS, all one year old, for \$5.00. Two-year-old stock, same collection, \$6.25.

FREE.—With each collection we make you a present of 50c to 75c worth of Flowering Bulbs, Shrubs or Roses (our selection).



GOLDEN CLING.—Good size, round; skin yellow; flesh fine-grained, firm, rich and sugary; clear yellow to the pit, which is very small; clingstone.

HALE'S EARLY.—Medium; skin greenish, mottled with red; flesh white, juicy and sweet; semi-freestone.

PEACHES

	Each	12
Two-year-old	\$0.40	\$4.80
1-year-old, 4 to 6 feet.....	.30	3.60
1-year-old, 3 to 4 feet.....	.25	2.50
Selected .....	.50	5.00

Write for our low prices by 100 or 1000.

EARLY CRAWFORD.—Very large, yellow, with red cheek; flesh sweet and excellent; our most popular peach for table and canning; freestone.

ALBERTA.—Very large, bright yellow, red cheek; flesh yellow, juicy, sweet; regular bearer; fruit very showy and perfect; freestone.

EARLY CHARLOTTE.—An improved seedling from Early Crawford, originated at Salem, Or. This remarkable Peach succeeds in Oregon, where many other varieties fail. Flesh yellow, melting and juicy, with a rich and excellent flavor; freestone; ripens ten days after Crawford's Early.

LATE CRAWFORD.—Very large, roundish; yellow, with dark red cheeks; flesh deep yellow, juicy and melting; flavor rich and excellent; very popular; valuable for canning and drying; freestone.

MUIR.—Large, pale yellow, very firm and sweet; best for drying; freestone.

SALWAY.—Creamy yellow, red cheek; flesh deep yellow, red at the pit; rich and sweet; a standard late peach, growing more and more in favor with orchardists; freestone.

QUINCE

	Each	12
2-year-old	\$0.40	\$4.80
1-year-old .....	.35	3.50
Select, 2-year-old	50c to .75	

CHAMPION.—Large, yellow; flesh cooks very tender; flavor is most delicious; more productive than the orange, ripening two weeks later.

ORANGE or APPLE.—Standard varieties.

PINEAPPLE.—The fruit in form and size resembles the Orange Quince, but is smoother and more globular. Makes a superior jelly. Can be eaten raw, and is said to cook as tender in five minutes as the best cooking apple, possessing a most exquisite and delicious flavor, not equaled by any other quince.

1 year 50c; 2 year 75c

PLUMS

Unless otherwise priced	Each	12
Two years old	\$0.25	\$2.75
One-year-old, 4 to 6 feet.....	.20	2.25
Selected	35c to .50	

Write for our low prices by 100 or 1000

ABUNDANCE.—Fruit large and beautiful; bright cherry; flesh light yellow, juicy, tender, sweet; productive; ripens first of August.

BURBANK.—Largest and handsomest of the new plums; perfectly hardy, free from disease; juicy, tender and sweet; ripens early August; as fine eating as a peach; freestone; should be in every collection.
Price 50c; selected 75c

BRADSHAW.—Reddish purple, juicy and pleasant; adheres partially to the stone. August.

COE'S GOLDEN DROP.—Large and handsome; light yellow; firm, rich, sweet; one of the best of late plums; last of September.

COLUMBIA.—Largest size, nearly globular; brownish purple; rich, sugary, freestone; August.

DAMSON.—Small, oval; skin purple; flesh melting, rather tart; September.

GREEN GAGE.—Small, round; flesh pale green, melting and juicy; freestone; August.

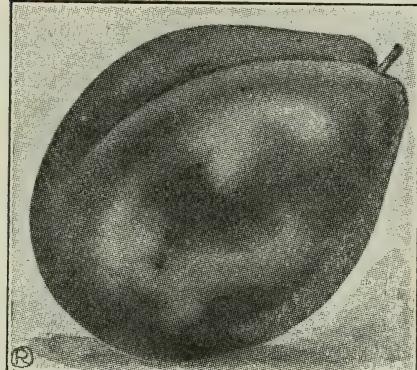
PEACH.—Very large; skin brownish red, slightly coarse-grained, but juicy; freestone; very popular; August.

YELLOW EGG.—Very large; skin of a deep golden color, but rather acid; excellent for cooking; very showy; August.

MAYNARD.—New; originated by Luther Burbank, that great master of modern horticulture. In size it is very large, often measuring $7\frac{1}{2}$ inches in circumference; form nearly round, slightly flattened at the ends, of richest crimson-purple, deepening to royal damask as full ripeness is reached. Tree hardy, vigorous and compact grower; leaves dark glossy green; bears immense crops of even-sized fruit while very young; never falls; surpasses all other varieties in keeping and carrying qualities; flesh firm even when dead ripe, but melting and juicy with a deliciousness indescribable. Commands the highest price in home and foreign markets; August.
Price 75c; selected \$1.00

REINE CLAUDE.—One of the best foreign varieties, and of fine flavor; roundish oval; greenish, marked with red in the sun; September.

WASHINGTON.—A large plum, skin dull yellow, with a pale crimson blush; flesh firm; very sweet and luscious; freestone; August.



PRUNES

Unless otherwise priced	Each	Dz.
Two years old.....	\$0.30	\$3.00
One year old, 4 to 6 feet.....	.25	2.50
One year old, 3 to 4 feet.....	.20	2.00
Selected	35c to .50	

Write for our low prices by 100 or 1000

GIANT.—New; of immense size, dark crimson on yellow ground; good yielder; flesh firm, rich, sweet, delicious; good shipper.

HUNGARIAN.—Very large, dark red; juicy and sweet.

ITALIAN (Fallenberg).—Medium, oval, tapering at both ends; dark purple; flesh greenish yellow; separates freely from the stone; best for drying.

PACIFIC.—Originated at Mt. Tabor, Oregon; hardy, abundant bearer; fruit freestone, very large and handsome; rich, sugary and luscious; a good shipper; the best of drying prunes.

TRAGEDY.—Medium size; skin dark purple; flesh yellowish green, very rich and sweet; a good shipper; freestone; July.

PEARS

Unless otherwise priced	Each	12
Two years old	\$0.50	\$5.50
One year old, 4 to 6 feet.....	.40	4.25
One year old, 3 to 4 feet.....	.30	3.00
Selected	60c to .75	

Write for our low prices by 100 or 1000

SUMMER VARIETIES

BARTLETT.—Large, skin thin, clear, lemon yellow, with soft blush on the sunny side; flesh white, buttery, very juicy and highly flavored; the best summer pear in existence.

Clapp's Favorite.—Fine-grained and melting.

KOONCE.—One of the most successful early market pears; a strong, upright grower; hardy, magnificent foliage; has produced crops when all other varieties

were killed by frost; fruit medium, yellow, with carmine cheek; juicy, spicy, sweet and delicious quality; ripens with the earliest; an excellent shipper; it comes into bearing young; July and August.

SECKEL.—Rich and highly flavored; its highly concentrated, spicy, honey flavor is unequalled; skin brownish green, russet brown cheek; flesh whitish, buttery and melting.

PEARS—Continued

AUTUMN AND WINTER VARIETIES

We can supply any other standard variety; these are the most popular for home and commercial plantings.

BEURRE CLAIRGEAU.—Large, yellow, shaded with orange and crimson; covered with russet dots; flesh yellowish, buttery, juicy; October-November.

BEURRE D'ANJOU.—A large, fine pear, buttery and melting, with sprightly, vinous flavor; tree a fine grower and good bearer; one of the very best; October to January.

BEURRE EASTER.—Large, yellowish; flesh white, fine-grained, juicy; sweet, rich flavor; very late.

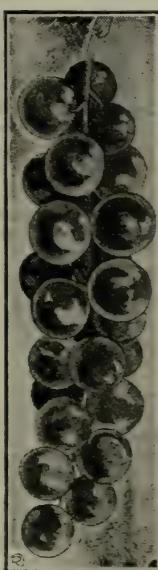
COMICE.—A splendid commercial variety, being of fine size; good appearance; ships well; October.

FALL BUTTER.—Favorite fall pear; yellow, smooth and juicy; September.

WINTER BARTLETT.—Originated in Eugene, Oregon. Fruit large, closely resembling the famous Bartlett in shape and appearance, but ripening considerably later; tender, juicy and melting, and with a most pleasing flavor.

Price, Selected 75c to \$1.00

WINTER NELLIS.—Medium; skin yellowish-green, dotted with gray russet; flesh yellowish-white; fine-grained and abounding with juice of a rich saccharine, aromatic flavor; especially adapted to this valley, producing large crops every year; an excellent shipper and good keeper; November-December.



CURRENTS

Low prices by the thousand

Unless otherwise priced	Each	12	100
Two years old	\$0.15	\$1.50	\$10.00
One year old .....	.10	1.00	6.00
Extra large selected bushes .....	.25	2.50	

One-year-old Currants sent by mail or express, prepaid for 5c each, or 25c per dozen extra.

PERFECTION.—New; a late introduction of great merit. Our grower says: "You cannot say too much about the good qualities of this grand new sort." So, whether you plant ten or a hundred, plant a good proportion of Perfections, which is the largest, most productive, finest-flavored (rich, mild, sub-acid; plenty of pulp; few seeds), healthy, bright red currant to date.

1 year, each 15c; per dozen \$1.50; per 100 \$12.50

2 year, each 25c; per dozen \$2.50; per 100 \$18.00

BLACK NAPLES.—Very large, black; valuable for jams and jellies.

CHERRY.—Large, deep red; rather acid; fine for preserving; valuable market variety.

FAY'S PROLIFIC.—A new Currant, larger than the Cherry; has less acid, and is more prolific.

WHITE GRAPE.—Large, yellowish white, valuable for the table; the finest of the white sorts.

RED CROSS.—A new red Currant of large size and superior quality; exceedingly vigorous and productive, with long fruit stems.

We can also supply—WEIDLERS, LONDON MARKET, NORTH STAR and VICTORIA at regular prices.

GOOSEBERRIES

Write for our low price per thousand

Unless otherwise priced	Each	12	100
Two years old	\$0.12	\$1.25	\$8.00
One year old .....	.10	1.00	6.00
Large selected bushes .....	.15	1.50	

One-year bushes by mail or express, prepaid, 5c each; 25c dozen extra

OREGON CHAMPION.—Berries very large, pale green color; very sweet and fine for table use and pies; bush strong, not very thorny; very prolific bearer; most popular and best commercial variety. Low prices by the thousand. Write.

DOWNING.—Large, light green; soft, juicy and good. Vigorous and very productive.

HOUGHTON.—Vigorous grower, abundant bearer; fruit of medium size, pale red, sweet and juicy.

RED JACKET (Josselyn).—Of large size, smooth, prolific and hardy; of best quality; a wonderful crop, with bright, clean, healthy foliage.

Prices, 1-year each 25c; per dozen \$2.50

Prices, 2-year each 30c; per dozen \$3.00

INDUSTRY.—Large, oval; dark red, hairy, rich and agreeable; vigorous and productive.

Prices, 1-year each 25c; per dozen \$2.50

Prices, 2-year each 30c; per dozen \$3.00



Oregon Champion.

GRAPEs

Unless otherwise priced	Each	12	100
Two years old	\$0.20	\$2.00	\$10.00
One year old .....	.15	1.50	8.00
Extra large and strong roots.....	25 to .35		
One-year grapes by mail each 5c; per dozen 35c extra.			
If wanted in larger numbers, write for prices.			

MCKINLEY.—A new early white grape of great merit; a strong, vigorous grower; thick, healthy foliage, and perfect self-fertilizing blossoms; bunches large and compact; fruit large, nearly round; very sweet, with no acid round the seeds, and no puckery taste in the skin; skin thin, green at first, then turning to yellow; bears handling and shipping well. Price, 1 year, 25c; 2 year 35c

McPIKE.—New. Perfectly hardy, earlier than the Concord; bunches large, even and compact, berries even in size, covered with a beautiful bloom, blue-black in color; ripens uniformly; are of mammoth size, rivaling Black Hamburg, and of superb quality. Price, 1 year 25c; 2 years, 35c

CAMPBELL'S EARLY.—Clusters large and handsome; berries large, round, black, with purplish bloom; flesh firm but tender; seeds few and easily separated from the pulp; flavor rich, sweet and slightly vinous. A strong and vigorous grower and ripens its fruit early. Berries do not drop from the clusters, and fruit keeps a long time in perfection. Price, 1 year, 25c each; \$2.50 dozen; 2 years 35c each; \$3.00 dozen.

CONCORD.—Large, black grape, bunches compact, berries round, sweet and pleasant; very popular.

MOORE'S DIAMOND.—Bunches large; berry greenish-white; flesh juicy and almost without pulp.

DELAWARE.—Best of our native grapes; grows freely and is perfectly hardy; ripens early; berries small, light red.

MOORE'S EARLY.—Bunch medium; berry large, resembling Concord, but more pulp, and is earlier.

THOMPSON'S SEEDLESS.—New. The best seedless grape to date; berry large, oblong and of superior quality; greenish-yellow; good grower and producer. Price 35c each

NIAGARA.—Berry large, pale yellow; flesh tender and sweet; productive; one of the best white grapes.

WORDEN.—Bunch very large and compact; berry large, black; an improved Concord.

OTHER GRAPEs

It would take pages to list all the varieties of grapes grown on this Coast, especially in California. We list the most popular hardy sorts for general use.

Flame Tokay, Black Hamburg, Muscat, White Sweetwater, Seedless Sultana, all at above prices.

RASPBERRIES

Unless otherwise priced—	Each	12	100
Two years old.....	\$0.10	\$1.00	\$6.00
One year old.....	.08	.75	4.00
One year by mail or express, prepaid, 5c each, 25c dozen extra.			
Very low prices by the 1000.			

RED CAPS

SUPERLATIVE IMPROVED

A NEW BERRY OF GREAT MERIT.

The berry is large and firm, with very small, brittle seeds; color, soft crimson. The healthy, vigorous growth, remarkable productiveness, hardness, immense size, handsome, uniform shape and rich, luscious flavor makes the "Superlative" peerless among raspberries and from the shipper's standpoint a most desirable berry; disease resisting, and nearly a week earlier than the Cuthbert.

Price, 10c each; \$1.00 dozen; \$7.00 per 100

MUNGER.—A well-known and popular kind. Black, juicy and good size.

CONRAD.—Early blackcap and of superior quality; ten days earlier than Gregg, coming in with the earliest reds. A most desirable and profitable new sort. Price, 15c each; \$1.50 dozen; \$8.00 per 100

CUTHBERT.—Berries very large, deep rich crimson; good for shipping; the most popular of all raspberries; stands the sun and heat well.

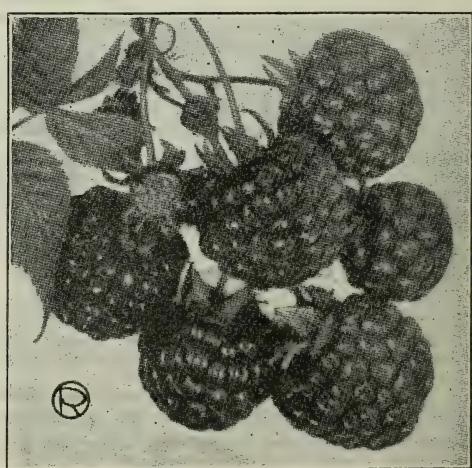
MARLBORO.—Very large and early; beautiful, bright scarlet; good quality; hardy and productive.

RED ANTWERP.—Earlier and about the size of the Cuthbert; rich flavor; bright red, and a good market or home berry for this climate.

BLACK CAPS

GREGG.—Of good size, fine quality; very productive and hardy. It takes the same position among Black Caps as Cuthbert among the red sorts.

KANSAS.—Strong, vigorous growers, standing extremes of drought and cold, and bearing immense crops; early; berries size of Gregg; of better color; jet black and almost free from bloom; firm, of best quality.



Conrad—New Black Cap.

We want the trade of Particular Planters, those who want Superior Quality. Our motto, "Quality first, price as low as we can make it."

BLACKBERRIES

Unless otherwise priced

	Each	12	100
Two year .....	.10	1.00	\$8.00
One year		\$0.08	\$0.75 \$5.00
One year by mail or express, postpaid, 5c each, 30 dozen extra.			

KITTATINNY.—Large, roundish, conical, glossy black, juicy, sweet; excellent when fully ripe.

LAWTON.—Fruit large; very productive; well and favorably known; Oregon's most popular kind.

ELDORADO.—New. Very vigorous and hardy; yield is enormous; berries large, jet black, borne in large clusters, and ripen well together; sweet, melting and pleasing to the taste; no core, and keep eight or ten days after picking with quality unimpaired.

Price, 15c each, \$1.50 per 12, \$10.00 per 100

EVERGREEN.—Introduced from Oregon; beautiful laciniate foliage, which it retains all winter; berries long, black, sweet, rich and delicious; ripens from July to November; a fine berry for family use.

HIMALAYA GIANT.—A new grand variety; an exceedingly strong, rampant grower of a trailing nature; a heavy cropper; the berries are large, juicy, coreless, sweet and firm, with a delicious aromatic flavor. Its deep-rooting qualities enable it to produce a large, firm berry even in a very dry season.

Price, 15c each, \$1.50 per 12, \$10.00 per 100

NEW MAMMOTH BLACKBERRY

A grand addition to the list of Blackberries. The handsome, large, juicy berries are delicious. It is a rampant grower of trailing habit; enormously productive and early. Fruit is enormous, specimens measuring two and one-half inches long; seeds small, soft and abundant; cores small and soft. In size and flavor it surpasses all other varieties of blackberries.

Prices: Two years old, 25c each; \$2.50 per 12, postpaid; by freight or express, \$1.75 per 12; \$10.00 per 100. One year old (tips), 15c each; \$1.50 per 12, postpaid; by express or freight, \$1.25 per 12; \$7.00 per 100.

BURBANK'S PHENOMENAL

Bright crimson raspberry color; very productive, and most delicious of all berries for pies, canning, jellies or jams. Sweeter than the Loganberry and fine as a fresh table fruit.

Prices: Two years old, 20c each; \$2.00 per 12, postpaid; by express or freight, \$1.75 per 12; \$15.00 per 100. One year old (tips), each 15c; \$1.25 per 12, postpaid; by express or freight, \$1.00 per 12; \$7.50 per 100.

LOGANBERRY

In great demand again for canning and drying. An exceedingly strong grower and an enormous bearer. The fruit is larger and longer than the blackberry and produced in immense clusters; color, dark red. Has a pleasant, vinous flavor, delicious and peculiar to this berry alone; fruit ripens early. It is excellent for the table, eaten raw or stewed, and for jelly or jam is without an equal.

Prices: Two year old, 20c each; \$2.00 per dozen, postpaid; by express or freight, \$1.50 per 12; \$10.00 per 100. One year old (tips), 15c each, \$1.50 per dozen, postpaid; by express or freight, \$1.25 per 12, \$7.00 per 100.

Note—Loganberry plants very scarce and stock limited.

DEWBERRY

LUCRETIA.—A trailing variety of the blackberry, ripening between the raspberry and the blackberry; fruit large, handsome, sweet and luscious. Price, each 15c; per 12 \$1.50, postpaid, by express or freight, \$1.00 per 12; \$7.50 per 100.

These Beat All the Ads. a Firm Can Write.

Kent, Wash., Jan. 7, 1912.

Routledge Seed & Floral Co.

Dear Sirs: Received trees, etc., and they were in excellent condition and I am well pleased with them.

Truly yours,
LOLA N. REYNOLDS.

The Dalles, Ore., March 10, 1912.

Routledge Seed & Floral Co.

Gentlemen: We were more than pleased with the trees and plants, as they are the best we ever saw.

Very sincerely,

A. D. ROINTREE.

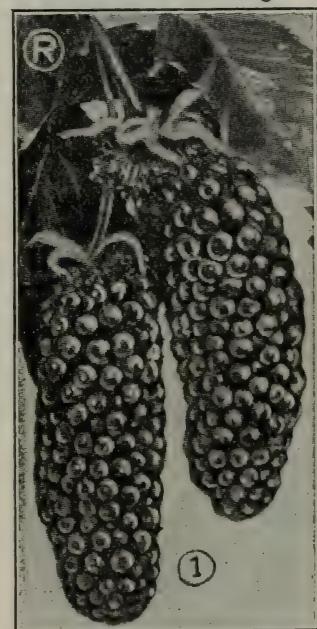
Finca "LaCastilloa,"

Lontecristo Tabasco, Mexico.

Routledge Seed & Floral Co.

Dear Sirs: The 12th inst. I received the package containing the strawberry plants, roses and gooseberries. All arrived in good condition. Thanking you, I remain

Very truly yours,
C. A. McJOHNSTON.



New Mammoth.

Springfield, Ore., Dec. 14, 1911.

Routledge Seed & Floral Co.

Gentlemen: We received our trees and they were fine. We let a friend take your catalog; he wanted to send and get an order of fruit.

Yours truly,

MR. MAURICE ZIMMER.

Oakland, Ore., Jan. 3, 1912.

Routledge Seed & Floral Co.

Dear Sirs: I received Rhubarb and Horse-radish Roots recently and must say that they were very fine. Very truly yours,

E. E. LEAS.

Hood River, Ore., April 8, 1912.

Routledge Seed & Floral Co.

Dear Sirs: Enclosed find check for \$71.34 in payment of our account to date. Our shipments from you have been very satisfactory and we wish to thank you for your promptness in attending our orders.

Yours very truly,
R. T. NEWHALL & CO.

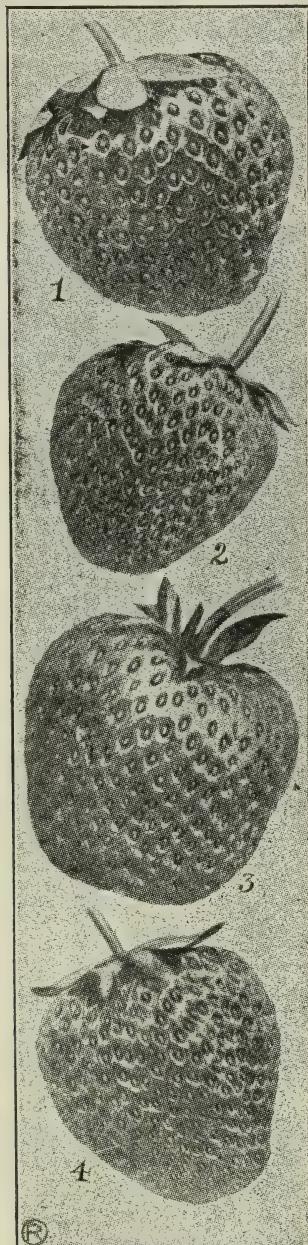
PERSONAL—When testimonials or letters are printed in catalogs without name and address of writers they don't ring true, eh? Any catalog writer can do that.

SELECTED STRAINS

STRAWBERRY PLANTS

NONE BETTER
FEW AS GOOD

Our Strawberries are carefully grown, trimmed and packed in the best manner to insure their arrival in good, fresh condition. IF YOU WANT GOOD, STRONG, HEALTHY, VIGOROUS PLANTS AND TRUE TO NAME, SEND TO US. OUR PRICES ARE RIGHT; OUR PLANTS ARE O. K.



FROM PHOTOGRAPH

- No. 1. New Oregon.
 No. 2. Gold Dollar.
 No. 3. Marshall.
 No. 4. Magoon.

Goodell—See back cover.

Our plants are not taken from old, run-out fields, but are propagated from young, vigorous plants that are grown especially for the propagation of plants. You will find our stock will give the best results. Don't buy any old kind because they are cheap.

THE GOODELL—Of Superior Quality

WON A GOLD MEDAL (HIGHEST AWARD) IN COMPETITION WITH CLARKS, MARSHALL, AND OTHER STANDARD SORTS AT ALASKA-YUKON EXPOSITION.

On account of the size, color and general appearances the GOODELL will bring the highest fancy price on any market. Last year they brought 50c to \$1.00 per crate more than other standard sorts.

Every strawberry grower, whether he grows for home or market, should "try out" this superb new variety that comes to us so highly recommended.

In flavor the GOODELL is unsurpassed; the berry is large, fine shape and solid red to the center. A most productive variety; not out-yielded by any. Don't let a season go by without planting out for trial at least a dozen plants.

Prices: 10c each; \$1.00 per dozen; \$5.00 per 100, postpaid

GOLD DOLLAR

This is one of the earliest berries on the market. Fruit good, medium size, and dark red all through; rather tart; fine flavor; foliage heavy, large and spreading, which protects the blooms from early frosts. Has a perfect bloom, and strong stems that hold the berries up from the ground, which helps to keep color and flavor during the early rainy season. A very heavy cropper for so early a berry.

There is money in Gold Dollars, and this year we can supply large quantities at special low prices.

NEW OREGON (IMPROVED)

This is one of the finest and most satisfactory Strawberries ever introduced. It always looks bright, fresh and attractive. The berry is very large, firm and handsome; rich, dark red, extending to the center. The flavor is rich, sweet and delicious. For table use and canning it cannot be equaled. The "Oregon" ripens very early and continues in bearing until late in the season, a good second crop coming on about October. Very prolific and a heavy cropper.

MARSHALL.—One of the best all-round Strawberries; very large; dark crimson throughout; fine flavor; a fine market and table berry. In size, appearance, flavor and sweetness it is superior to the popular Magoon; excellent for table and canning, but not a long shipper.

MAGOON.—Berry large, fine and excellent; sub-acid flavor; bears heavily and throughout the season.

CLARK'S SEEDLING.—The berry that has made Hood River famous; best shipper; berries large, firm and of delicious flavor; vines bear large crops; is especially adapted to dry soil.

WILSON.—A heavy bearer of fine, moderate-sized berries; sharp acid flavor; leading sort for canning.

	By mail, postpaid.	By express or freight.	
Price List of Plants—	Dozen	100	1000
Clark's Seedling	\$0.25	1.00	\$0.60
Gold Dollar .....	.40	1.25	.60
Magoon .....	.25	1.00	.60
Marshall (Selected Stock) .....	.35	1.25	.75
New Oregon (Improved) .....	.40	1.25	.75
Wilson .....	.25	1.00	.60

All our Strawberry plants packed in special strawberry crates holding 500 plants each.

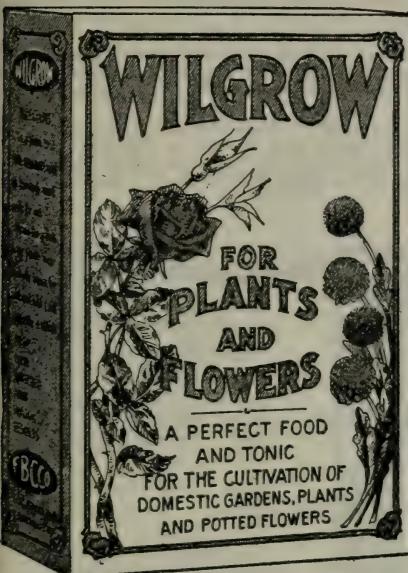
Not less than 500 plants of a kind at 1000 rate. Special low prices on 3000 or more. Write, stating quantity and kind wanted.

NOTICE.—EARLY PLANTS.—From August 1st to October 15th, we can supply strawberry plants, especially grown and garden cultivated, at 25c extra per doz., 50c extra per hundred, and \$2.50 extra per thousand. If you want plants before main crop is ready, add the extra cost to above prices.

DON'T

be misled by the fine catalogs with little prices sent out from the East. Buy our field-grown varieties, better berries than ever grew in the East. You know it!

FERTILIZERS FOR ALL CROPS AND PLANTS



See "Beaver Brand" Fertilizers, pg. 41.

Wilgrow

The Best and most satisfactory fertilizer we ever sold. All plant life is benefited by its use.

Wilgrow is a perfect and highly concentrated fertilizer, made principally from WHALE product, and prepared especially for vegetable or flower garden, fruit trees or bushes, roses and shrubs, lawns, palms, hothouse and potted plants.

THE ADVANTAGES OF WILGROW. Just the Fertilizer for the City Gardener.

It is a concentrated fertilizer, put up in small packages, thereby making its distribution a cheap and easy matter. Being a concentrated fertilizer, only a very small amount is required to produce the largest yield. (See general directions below.) There's no use of your paying dray and freight charges on bulky fertilizers containing three-fourths sand, ash or dirt filler. Wilgrow is the pure "dope"—clean and easy to apply. We guarantee it to give results.

The small amount of WILGROW required reduces the expense of fertilizing to about one-half the cost of manure or the average commercial fertilizers on the market.

The Nitrogen and Phosphoric Acid in Wilgrow do not exist in a form immediately soluble in water, therefore neither the seepage of rain or irrigating water carry these elements away quickly. On the other hand, they remain in the ground and are only given up as they are needed by the plants.

GENERAL DIRECTIONS.—When planting in drills, sprinkle Wilgrow lightly in the drills at the rate of one heaping teaspoonful to each running foot; mix well with the soil and plant according to usual directions.

When planting in hills, use one tablespoonful of Wilgrow to the hill, mixing thoroughly with the soil.

When preparing soil for strawberry and other plants, use one teaspoonful of Wilgrow, mixed thoroughly with the soil, for each plant. An occasional light application during the growing season will be a great benefit.

For Potted Plants and Window Gardens, the soil should be well sifted and a teaspoonful of Wilgrow added to every two quarts of soil and thoroughly mixed.

PUT UP IN FOLLOWING SIZES ONLY

1½-LB. PAPER BOX, PRICE, 25c; POSTPAID, 50c; 10-LB. PACKAGE, \$1.00 25-LB. BAGS, \$2.00
A 25-lb. bag of "Wilgrow" is equal to 150 lbs. of most fertilizers.

Fertilizers in Bulk

1½-LB. PAPER BOX, PRICE, 25c; POSTPAID, 50c; 10-LB. PACKAGE, \$1.00; 25-LB. BAGS, \$2.00.
have large acreage to cover and want to prepare their own fertilizers:

PURE PULVERIZED SHEEP MANURE.—A pure, natural and nutritious manure. Immediate and lasting in effect. Excellent for mixing with the soil for greenhouse plants or flower beds. In the vegetable garden it promotes a rapid, steady growth until maturity. It makes a rich liquid manure.

Quantity Required.—For garden and field crops, 1 to 2 tons per acre—½ before plowing, the balance before harrowing. For top-dressing grass, use 1 ton per acre, applied in fall or early spring. Price: 10 lbs. 25c; 50 lbs. \$1.25; 100-lb. bag \$2.00; low price per ton.

HIGH-GRADE BONE MEAL.—This is a special brand we have put up for our trade. It is ground fine, hence acts quickly. Free from acid and a superb article. It is made from bone accumulated in large slaughter-houses, and should not be compared with the Bone Meal made from cattle heads and feet gathered upon the Western prairies.

Quantity Required.—For permanent pasture and mowing lands one-half to one ton per acre; for trees and vines, 2 to 4 quarts each; for plants and rose beds, 10 pounds to 100 square feet; for starting a new lawn, as a base, 3 to 5 pounds per 100 square feet. Price: 5 lbs. 30c; 10 lbs. 50c; 50 lbs. \$1.50; 100 lbs. \$2.50.

LAND PLASTER.—Used largely on grass and clover crops. Not sold in less than 100-lb. sacks. City delivering extra. Price: 100 lbs. \$1.00; 500 lbs. \$4.00; 1000 lbs. \$7.50; ton \$14.00.

MURIATE OF POTASH.—One of the best orchard fertilizers known, and used largely for fruit stocks. Price: lb. 10c; 10 lbs. 50c; 50 lbs. \$2.00; 100 lbs. \$3.25; original sacks, 224 lbs., \$6.50.

SULPHATE OF POTASH.—A desirable form of potash, especially valuable for potatoes and any root crops, such as beets, turnips, etc., also cabbage, etc. Use 50 to 400 lbs. per acre. Price: lb. 10c; 10 lbs. 50c; 50 lbs. \$2.25; 100 lbs. \$3.50; 224-lb. sacks \$7.25.

NITRATE OF SODA.—A fertilizer for all crops. It is very quick in action, and hastens maturity of crops fully two weeks. Being quickly soluble, it should not be applied until the plants are above ground. Use 100 to 200 pounds per acre as a top dressing on vegetables, such as celery, tomatoes, cucumbers, lettuce, etc. Price: lb. 10c; 5 lbs. 40c; 25 lbs. \$1.25; 100 lbs. \$3.50.

SUPERPHOSPHATE.—This is a concentrated form of phosphoric acid, and it is actually the cheapest form in which to buy phosphoric acid. Price: Per lb. 10c; 5 lbs. 40c; 50 lbs. \$1.25; 100 lbs. \$2.00.

You must feed your plants and trees if you want to get the best and most profitable crops. See "Beaver Brand" Fertilizers, pg. 41 —

SPRAY PUMPS AND SPRAYERS

We can supply nearly twenty different styles, from a light hand pump to the large, powerful power outfits.

HARDIE SPRAY PUMPS—"The Sprayer With the Trouble Left Out"

In the HARDIE SPRAYERS all working parts are brass. Perfect agitation of the spray mixture is secured by a mechanical agitator, which works with each stroke of the handle (notice cut carefully). The construction is simple. The pump can be repacked or plunger tightened easily and quickly. No pipe wrench needed. All the valves are round, hard brass balls.

The illustration below shows one of our No. 6 pumps mounted on a barrel. This manner of mounting the pump on the side of the barrel has many advantages. It sits low down, and is not in the way of low branches; there is no danger of tipping over, and the pump is in the deepest part of the barrel, and ALL the liquid can be pumped out. A filler door is hinged near one end, and a suitable strainer is furnished with each barrel. We will furnish barrel plates for mounting pump on end of barrel if desired.

NO. 5 HARDIE BARREL PUMP.—Used in our wheel outfit No. 21 and barrel outfit No. 14; is arranged for two lines of hose; will supply from two to three nozzles; plunger tube is $1\frac{1}{8}$ inches inside diameter; stroke of plunger 4 inches; and when operated at 30 strokes per minute will convert into a fine spray 50 gallons of liquid per hour. Price, with iron air chamber, \$9.50; with brass air chamber, \$11.00.

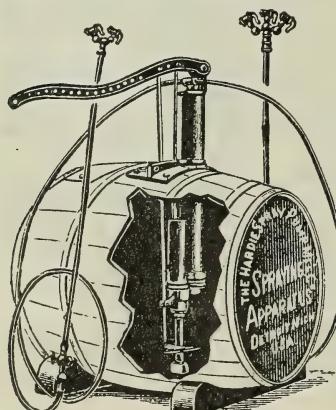
NO. 6 HARDIE BARREL PUMP.—Fitted for two lines of hose; will supply from four to six nozzles; inside of diameter of plunger tube 2 inches; stroke of plunger from $4\frac{1}{2}$ to 5 inches; when operated at the rate of 30 strokes per minute will convert into a fine spray 120 gallons of liquid per hour. Furnished with flat plates for end of barrel or flat top tank, if so ordered, without extra cost. Price with iron air chamber, \$11.00; with brass air chamber, \$14.00.

NO. 7 HARDIE BARREL PUMP.—Fitted for two lines of hose; will supply six to eight nozzles; inside diameter of plunger tube $2\frac{1}{4}$ inches; stroke of plunger $4\frac{1}{2}$ to 5 inches; when operated at the rate of 30 strokes per minute will convert into a fine spray 240 gallons of liquid per hour. This pump is furnished with either round plates to fit side of barrel or flat plates for top of barrel. Price, with iron air chamber, \$14.00; with brass air chamber, \$16.00.

THE "HARDIE" BARREL OUTFITS.

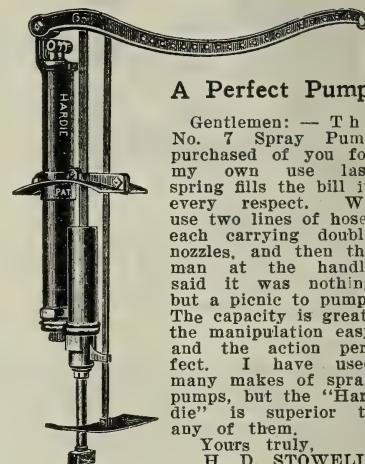
We can make up any outfit wanted, so we leave it to our customers to say what they want. Figure as follows: First, the price of pump; second, bamboo extension rod; third, $\frac{3}{4}$ -inch spray hose wanted (any length), at 15¢ per foot. (Note.—We will furnish one single Vermorel or Bordeaux nozzle with each outfit free.) Fifth, if you want pump mounted on a No. 1 hardwood barrel, add \$3.00 more.

HARDIE BARREL OUTFIT NO. 14.—This is an ideal outfit for those who want a barrel pump, yet do not have enough spraying to pay to buy a larger size. For spraying tall trees you will need an extension rod extra (see prices elsewhere). This No. 14 outfit includes a No. 5 Hardie pump, 1 lead of best $\frac{1}{2}$ -inch hose 10 feet long, 1 leakless stopcock, 1 spraying lance 18 inches long, one 2-cluster Vermorel nozzle. Price complete without barrel \$13.00; mounted on barrel \$17.00.



No. 6 Hardie Barrel Pump Mounted.

FEW SPRAY PUMPS EQUAL AND NONE BETTER THAN WHAT WE OFFER



A Perfect Pump.

Gentlemen: — The No. 7 Spray Pump purchased of you for my own use last spring fills the bill in every respect. We use two lines of hose, each carrying double nozzles, and then the man at the handle said it was nothing but a picnic to pump. The capacity is great, the manipulation easy and the action perfect. I have used many makes of spray pumps, but the "Hardie" is superior to any of them.

Yours truly,
H. D. STOWELL.

OUR SPECIAL OUTFIT NO. 17½.—One No. 6 all-brass pump, mounted on barrel, one 15-foot lead best $\frac{1}{2}$ -inch hose, one 10-foot bamboo extension rod with stopcock and drip guard, one 2-cluster Vermorel nozzle, all complete and ready for work; Price \$21.00; mounted on barrel \$25.00; extra lead of hose, extension and nozzle, \$5.00 extra.

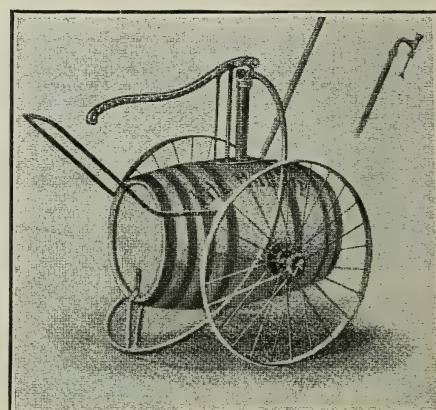
OUTFIT NO. 17.—Same as above only iron air chamber, \$3.00 less.

OUR SPECIAL OUTFIT NO. 21.—(See cut.) This outfit is designed to meet a long-felt want by the small fruitgrower and gardener. The 30-gallon barrel is mounted on strong wrought-iron wheels, 26 inches in diameter, with $1\frac{1}{2}$ -inch tires. No. 5 pump, 5 feet best hose and couplings, 8-foot bamboo rod and leakless stopcock, 1 Vermorel nozzle. Price \$22.00.

For full information and descriptions of our twin cylinder, wagon and power spraying outfits send for our 50-page descriptive Spray Pump Catalog.

Guaranteed to do the work claimed or your money back.

For full information and descriptions of our twin cylinder, wagon and power spraying outfits send for our 50-page descriptive Spray Pump Catalog.



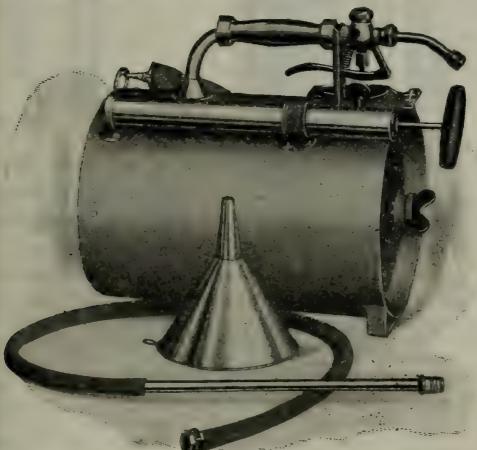
Hardie Wheel Outfit No. 21



"Hardie
Bucket
Outfit"
the best value
and best
Bucket Pump
on the market.

Who says
So?

Every one who
has tried them;
and we have
sold hundreds.



Lowell Fountain Compressed Air Sprayer.

Lowell Fountain Sprayer

Last year we bought a few of these Sprayers to test out and found them the most perfect and satisfactory compressed air sprayer on the market. It's really a pleasure to operate them. They are so handy, work so perfectly and do not get out of order. Compared with other sprayers of this type they are worth double the price.

Exclusive Points (note the illustration).—It is devoid of complex or intricate parts, both automatic and positive in its action. One charge of air is sufficient to expel entire contents. Always ready, a few strokes of its plunger starts the continuous spray. No slopping or spilling of the spray.

Construction.—The heads after being seamed and riveted are dipped into molten solder, making it absolutely air-tight and the strongest Air Pressure Sprayer made—standing five times the air pressure necessary to operate. No safety valve is needed with the Lowell.

Note.—Note the shoulder strap for carrying, the automatic controlling valve under the handle, easily operated with one finger. You have perfect control of the spray and don't waste any.

Saves Its Cost.—This valve and lever will save the cost of the sprayer in making a given amount

Every city gardener or florist needs a Lowell Fountain Sprayer; clean and easy to operate; no need to get any spray on your hands or clothes; will last a lifetime with reasonable care. Try one at our store.

THE HARDIE ALL-BRASS LEVER BUCKET PUMP.—This pump (see cut) is a high-grade, all-brass bucket pump, especially designed to meet the long-felt want in this line. It is the only bucket pump on the market that has a mechanical agitator, and that is so designed as to always stand in position in the center of the bucket. It can readily be detached from the bucket by unscrewing a nut on the spider. This new device for holding the pump firmly in place in the center of the bucket enables the operator to carry the whole outfit with one hand. A practical outfit for light work. This is the only bucket pump in the market that is giving entire satisfaction. It is capable of developing a 200-pound pressure, and maintaining a 100-pound pressure while spraying with 35 strokes to the minute.

THE HARDIE BUCKET OUTFIT NO. 10.—Includes No. 4 Pump, one 5-gallon heavy wooden bucket, three feet best $\frac{1}{2}$ -inch hose, one spraying lance 18 inches long, one spraying nozzle. It is designed for low spraying. Price \$7.00.
To reach the tops of tall trees, you should order, extra, an extension rod. For price of extension rods, see page 105.



LOWELL
FOUNTAIN
SPRAYER

Note—High spraying with extension rod—low spraying without.

We sell
SPRAYS AND
INSECTICIDES
for all purposes. See
pages 106-107 and 125.

of solution do so much more work. None is wasted. with the Lowell. The lever cuts off instantly, at the operator's will. The short crook shown in the cut is used when spraying vegetables and small fruits. For reaching the under side of leaves of gooseberries, currants, grapes, etc., attach the hose and use a bent or straight extension rod. For tree work you can use as many two-foot brass extensions as is necessary to reach the desired height. The spray discharge is in the form of a dense fog or mist. There is absolutely no drip and therefore no shield or guard are needed.

The Lowell Fountain Compressed Air Sprayer is well adapted for the fruit grower, farmer, stockman, poultryman, florist and for general disinfectants. Full directions for operating with each machine.

Price No. 110, brass tank, \$7.00; No. 111, galvanized tank, \$5.00.

Extras—2-foot brass extension rods, each 50c; vine attachment, 2-foot extension with bent neck, each 75c.

Note—Any little part can be furnished at any time. If wanted send for catalog showing parts numbered.

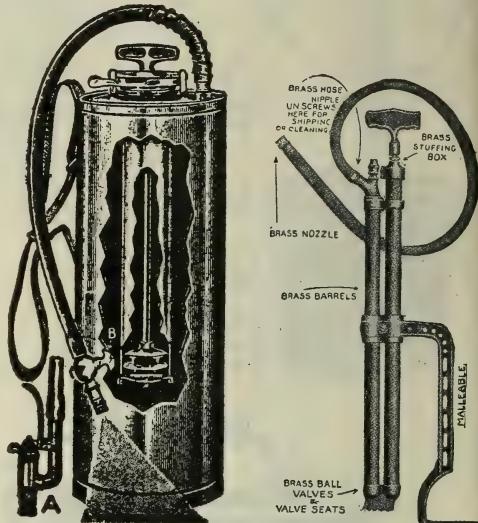
Every city gardener or florist needs a Lowell Fountain Sprayer; clean and easy to operate; no need to get any spray on your hands or clothes; will last a lifetime with reasonable care. Try one at our store.

Spray Pumps—Continued

BANNER COMPRESSED AIR SPRAYER—(See cut). This is one of the best compressed air sprayers made. It is not equal to the new Lowell Fountain Sprayer offered on preceding page, but it is O. K. We have about 30 of these sprayers left to sell at cost. The tank holds four gallons—three gallons of solution and one gallon of compressed air. The pressure is raised by a few strokes of the air pump, which is sufficient to make it discharge a spray for eight or ten minutes. The sprayer is carried over the shoulder by a shoulder strap, and is a most convenient style of sprayer for small plants and vines and field crops. The machine is very strongly made, both in heavy rolled brass or galvanized iron. These sprayers are fitted with the latest improved automatic nozzles.

BARGAIN PRICES while stock lasts. Galvanized tank, regular price, \$5.50; now, \$3.65. Brass, regular price, \$7; now, \$5.50.

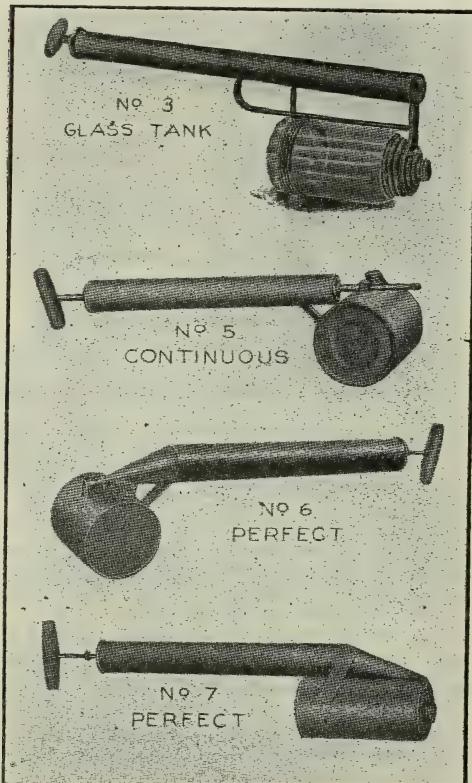
O. K. BRASS BUCKET PUMP—(See cut.) Constructed entirely of brass. It is furnished with three feet of best quality rubber hose, detachable; malleable iron stirrup, three interchangeable brass nozzles, which throw a fine mist, coarse spray or a solid stream. Pump is provided with large air chamber, with brass ball valves and valve seats. Throws a continuous spray; neat in appearance as well as durable in construction. Much superior to pumps of this class offered heretofore. Look at illustration carefully. Price \$2.75



Banner Sprayer.

O. K. Bucket Pump.

These Sprayers can be sent by Parcels Post—write if interested.



Don't wait until the fungi, such as mildew, etc., have attacked plant or tree; the fungicides are merely preventives and should be used in the fall or early in the spring. After the disease has developed, it may be too late to save the plant.

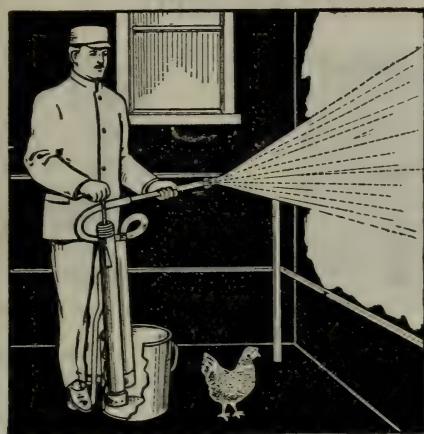
For insecticides, sprays, etc., for all purposes, see pgs. 106, 107 and 125.

NO. 5 CONTINUOUS SPRAYER.—A new continuous hand sprayer of real merit; the new style for 1913 is larger and greatly improved. As the name implies, is so constructed that it not only sprays on the downward stroke of plunger but also when it is drawn back, thus causing a continuous mist-like spray, enabling one to spray three times as fast and with one-third the labor. Just the sprayer for children or women. Air chamber measures $1\frac{1}{2}$ inches in diameter by 14 inches long. Has a $\frac{1}{4}$ -inch steel plunger rod; special type plunger. Sprayer is fitted with a 3-16-inch brass ball check valve which is positive in its action and practically indestructible. Capacity, one quart. Each: Tin, 75¢; galvanized, \$1; brass, \$1.50.

NO. 6 PERFECT SPRAYER.—This is a single tube sprayer. The air chamber measures $1\frac{1}{4}$ inches in length by $1\frac{1}{2}$ inches in diameter. Fitted with a $\frac{1}{4}$ -inch steel plunger rod; special type plunger. Capacity, one quart. The special arrangement of the spraying tube is such that it thoroughly breaks up or atomizes all oils and solutions into a fine mist-like spray which penetrates all cracks and crevices. Adapted for all kinds of general spraying and is used very extensively for spraying disinfectants, etc. Each 50¢

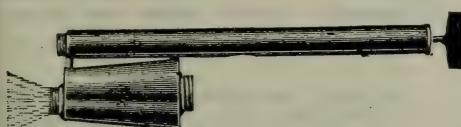
NO. 7 PERFECT SPRAYER.—Same size and capacity as No. 6, but the spray tank is put on the long ways of the air chamber. Makes a very fine mist spray that carries well. Light and easily handled. Our most popular seller for general all-round use. Each 50¢

NO. 8 GLASS TANK SPRAYER.—This is an unusually well constructed hand sprayer and a most convenient type on account of the glass reservoir which is a quart mason jar that is not affected by any kind of spray. You can have as many quart jars of different sprays (already prepared) as needed and when you wish to change take out one and put in another, with only a moment's delay. Has extra long air chamber, special plunger and two brass spray tubes. Throws a strong, fine spray in any direction. Metal part enameled red. Each \$1.00



Lightning Whitewash Sprayer.

THE "LIGHTNING" WHITEWASH SPRAYER.—Made especially for spraying whitewash without clogging, and it will do better work than can be done with a brush, as the force with which the material is applied causes it to penetrate the small crevices, thus making a complete and perfect job, and the work can be done ten times as quick, more thoroughly and a great deal neater. Descriptive circular on request. No. 28—Galvanized iron, \$2.00; brass, \$2.75.



Lowell Powder Gun.

SPRAY NOZZLES, SPRINKLERS, EXTRAS, ETC.

LAWN SPRINKLER.

Don't waste time holding the hose nozzle—use lawn sprinklers, and change positions as often as necessary.

Pluvius Lawn Sprinkler.—(See Cut.) \$1.35 each
Monarch or Midget.—Same style as above, only lower. \$1.15 each

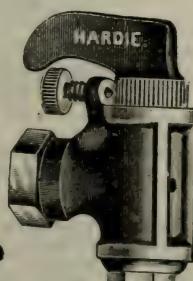
Busy Lawn Sprinkler.—(See cut, next page.) Very desirable for medium sized yards. \$1.00 each

Fountain Sprinkler.—Circular, brass. \$1.00 each

Little Wonder.—(See cut No. 37.) Excellent in small yards. Covers 20 feet. 40c each



Pluvius Sprinkler.



Bordeaux Spray Nozzle

POWDER SPRAYERS OR BLOWERS

These are used for applying Sulphur, Bug Death, Dry Bordeaux or insect powder of any kind. We offer three of the best and most practical powder sprayers made.



Acme Powder Gun No. 2.

ACME POWDER GUN NO. 1.—Consists of a tight valveless bellows equipped with a distributing tube or nozzle, a funnel, a spreader for diffusing the spray, and an elbow for placing the spray on the under side of the leaves. Handles of convenient length, bellows of fine russet leather, bellows sides basswood, painted vermilion. Capacity $\frac{1}{4}$ pound, length 24 inches, weight 2 pounds. Directions on each gun.

Price \$1.00

ACME POWDER GUN NO. 2.—Similar to No. 1, but has a double bellows, arranged to give a continuous blast. Neck cord to sustain weight of the gun. If you wish to apply much powder buy a No. 2 Acme. Capacity $\frac{1}{2}$ pound, length 33 inches, weight 4 pounds. (See cut.) Price \$1.75

LOWELL POWDER GUN.—(See cut.) Properly constructed of heavy tin. It is unnecessary to give the details of the mechanical constructions of the sprayer, as we give a positive guarantee with each sprayer that it is impossible to draw powder back into the cylinder pump, and if the powder is sifted through a screen and kept absolutely dry it will be impossible for the same to clog. With these features covered, the sprayer is sure to give satisfaction. The powder can holds one quart, and the sprayer is finished in aluminum, giving it an attractive appearance. Price 90c

For small insect, one-hand powder guns, see Poultry Supplies.

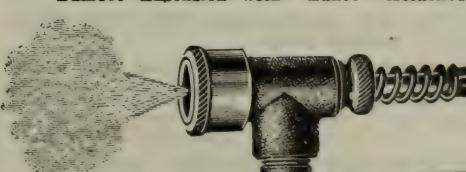
HARDIE BAMBOO EXTENSIONS

These have seamless aluminum tubing, leakless stop-cock, drip guard, lance and brass connections at each end.

Price: 6-foot \$2.25; 8-foot \$2.50; 10-foot \$2.75; 12-foot \$3.00. These are the lightest and best Extension Rods ever offered, and well worth the difference in price.

EXTENSION RODS—Ordinary

	Bamboo	Iron
6-foot	\$1.35	\$1.00
8-foot	1.50	1.10
10-foot	1.65	1.20
12-foot	1.80	



For Free Premiums
See Inside
Front Cover

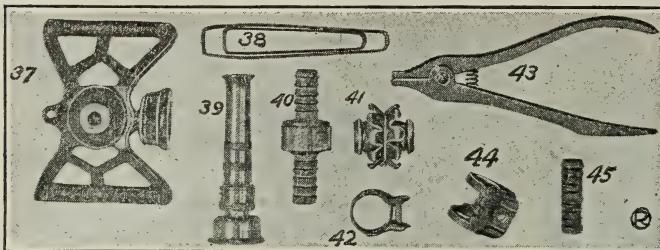
Vermorel Nozzle

SPRAY NOZZLES.

Single Bordeaux (Best for Whitewash).....	\$0.75	Single Vermorel (Very Fine Spray).....	.75
Double Bordeaux	1.50	Two-Cluster Vermorel	1.50

CARTS—If you are interested in a barrel or platform cart write for descriptive pamphlet.

HOSE ATTACHMENTS, EXTRAS, ETC.



Busy Sprinkler (see pg. 105).

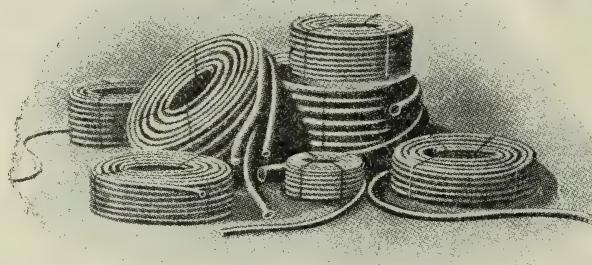
GARDEN HOSE NOZZLES

- No. 31—Diamond Nozzle.—Best for sprinkling; adjustable from solid stream to a fine spray. Each 40c; postpaid 50c
No. 38—Wire Hose Straps. $\frac{1}{2}$ -in. or $\frac{3}{4}$ -in. 3c each, 25c dozen
No. 41—Dandy Hose Mender.—Best mender made, simple and quick; nothing to catch. $\frac{1}{2}$ -in. 20c, $\frac{3}{4}$ -in. 25c
No. 43—Wire Hose Pliers. 25c each

- No. 40—Hose Connections. $\frac{1}{2}$ -in. or $\frac{3}{4}$ -in. 25c pair
Snap Hose Coupling.—New automatic device of real value. Each: $\frac{1}{2}$ -in. 25c, $\frac{3}{4}$ -in. 35c
Hose Washers. 10c dozen
No. 45—Brass Mender Tubes. $\frac{1}{2}$ -in. or $\frac{3}{4}$ -in. 5c each, 50c dozen
No. 42—Hose Clamps. $\frac{1}{2}$ -in. or $\frac{3}{4}$ -in. 5c each, 50c dozen
No. 44—Hose Clamps.—Double. $\frac{1}{2}$ -in. or $\frac{3}{4}$ -in. 10c each, \$1.00 dozen

SPRAY AND GARDEN HOSE

We carry a good line of high-grade hose for spray pumps and garden purposes. We advise our customers to buy the best. It is cheapest in the end.



Garden and Spray Hose.

SPECIAL SPRAY HOSE.—The highest grade spray hose made; guaranteed. Price, $\frac{1}{2}$ -in. only, 20c ft.

HIPPO (Non-Kinkable).—Guaranteed. This hose gives excellent satisfaction. Good enough for any ordinary spraying outfit, and by far the best hose for florists' or gardeners' use. We have this on 500-foot reels, and cut any length wanted. Price, $\frac{1}{2}$ -in. 15c; $\frac{3}{4}$ -in. 18c

TROUT COTTON HOSE.—Makes an excellent garden hose for those who prefer a cotton hose on account of lightness. Made of 4-ply canvass with a good, thick, rubber lining. Price, in 50-ft. lengths only, coupled, $\frac{1}{2}$ -in. \$4.50, $\frac{3}{4}$ -in. \$5.50.

SPRAYS, INSECTICIDES, ETC.

Space in this catalog will not permit us to fully describe our line of Sprays, etc., but we will gladly mail interesting and descriptive booklets and pamphlets free on request.

ARSENATE OF LEAD.—An effective destroyer of leaf-eating insects. One pound to 17 gallons of water. 1-lb. 25c, 2-lb. can 45c, 5-lb. \$1.00, 10-lb. \$1.90; write for quantity price.

BORDEAUX MIXTURE (Liquid).—Very effectual in preventing and checking all fungous diseases, such as blight, rust and mildew. One gallon to 50 gallons of water. Full directions on can. Quart 60c; gallon \$1.25

QUICK BORDEAUX ("Target Brand") powder form.—The best Bordeaux on the market. All ready to mix with water at the rate of 1 pound to 10 gallons of water. This is excellent to sprinkle in powder form under the rose bushes to prevent mildew. Per lb. 15c; 5 lbs. 70c; 10 lbs. \$1.00

BLUE LABEL SLUG DESTROYER.—This is the first powder of its kind that we ever found to positively kill slugs and keep them away from young plants. Full directions on each package. Put up in 25c, 50c and \$1.00 packages.

BLUESTONE (Vitriol).

Lb. 15c; per 100 lbs. market price

BLACK LEAF "40."—A concentrated solution of nicotine sulphate containing 40 per cent nicotine. Indorsed by the foremost experts of the U. S., for curl leaf, green and woolly aphids, trips, plant lice, codling moth, pear psylla and all leaf-eating insects. Descriptive pamphlet on request.

Prices: $\frac{1}{2}$ -lb. can 85c, makes 47 gals. spray; $2\frac{1}{2}$ -lb. can \$3.25, makes 240 gals.; $10\frac{1}{2}$ -lb. can \$12.50, makes 1000 gals. Full directions on can.

SCALE DESTROYER ("Target Brand").—An oil spray of decided merit. Has many advantages over lime and sulphur. Use one gallon to 20 of water, after the leaves are off and up to time buds appear. For summer spray use one gallon to 100 gallons of water. Booklet tells why it is more effective and better to use than the disagreeable lime and sulphur. Price: Pt. 25c; qt. 35c; gallon \$1.00; 5-gal. \$3.75; 10-gal. \$7.50. Write for price per barrel.

You must keep the insects off your flowers and fruit if you want to be successful.

Sprays, Insecticides, Etc.—Continued

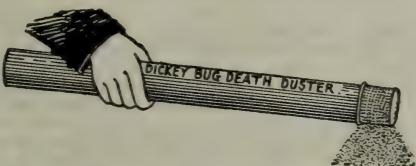


Bug Death.

BUG DEATH (non-poisonous).—A most effective powder that kills the squash, cucumber and cabbage bugs, currant worm and all bugs and worms that eat the leaves of plants or vines. Bug Death is a wonderful protection against insects. Absolutely non-injurious. Contains no arsenic. Kills the bugs, prevents blight, revives and aids the healthy growth of plants and

shrubs. Does the work as nothing else will. You can't afford to be without it. Bug Death is generally applied dry, but is very effective mixed with water and sprayed. Use 1 pound to 2 gallons water. Price—Put in 1-lb. cans with perforated shaker tops, 25c; postpaid, 45c; 3-lb. pkg., 50c. In Bulk—5 lbs. 65c; 10 to 25 lbs. at 12c lb.; 100-lb. kegs, \$10.00.

Send for pamphlet, "Bug Death," which gives full information.

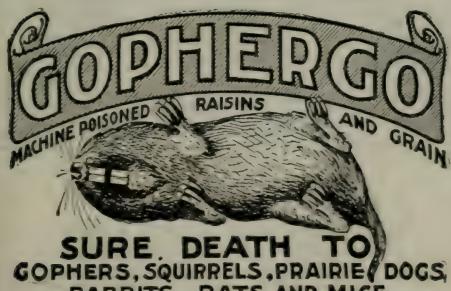


DICKEY BUG DEATH DUSTER.

For use on small gardens this is very handy. Saves powder, puts it on evenly and just where you want it. Each 35c

ACRE AN HOUR SIFTER, bucket shaped, straight sides, made of heavy tin, wood handle, holds 5 lbs. powder. A simple twist of the wrist does the work. Each, 85c

For Powder Guns or Blowers see pg. 105.



SURE DEATH TO
GOPHERS, SQUIRRELS, PRAIRIE DOGS,
RABBITS, RATS AND MICE.

The only prepared poison that will get a gopher. The government advises poisoning as the most effective and best method of exterminating ground pests. Gophergo is a combination that never fails. They are sure to get either the grain or the raisins. It has been tested and endorsed by many state experiment stations. If farmers and gardeners would carry a small can of Gophergo when walking around their places and leave a few pellets where "signs" are discovered the pests will soon disappear. Full directions on each can. Price: $\frac{1}{2}$ -lb. can 25c, postpaid 35c; 1-lb. can 50c, postpaid 70c; 3-lb. can \$1.00.

GRAFTING WAX. $\frac{1}{4}$ -lb. 10c, postpaid 15c; 1-lb. 35c

LIME AND SULPHUR SOLUTION.—Known and used everywhere. Is one of the best sprays for San Jose scale. Our liquid is properly prepared and all ready to mix just as you get it. Add 8 gallons of water to each gallon of the Lime and Sulphur Solution. There is no sediment to clog the sprayers. No boiling to be done, which saves time, labor and annoyance. Beware of cheap mixtures. We offer only "Highest Quality." Price: Qt. 25c, 1 gal. 50c, 5 gal. \$1.75, 10 gal. \$3.50. Write for price per barrel.

NICO-FUME LIQUID.—Used extensively by our best florists for spraying or vaporizing in green houses, for aphids, spider, thrip, etc. Claimed to be better and cheaper than Nicoticide, Rose-Leaf, To-Bak-Ine, Etc. Prices: Small can 75c; pt. \$1.50; gal. \$10.50

NICO-FUME PAPER.—This is a paper treated with nicotine, giving off dense fumes of strong nicotine when ignited. Preferred by many who do not wish to spray or vaporize. Price: Can of 24 sheets 75c; 144 sheets \$3.50; 288 sheets \$6.50.

QUASSIA CHIPS.—Generally used with Whale Oil Soap for lice, etc. 1-lb. 10c, postpaid 30c

POTASSIUM SULPHIDE.—(Liver of Sulphur.) One of the best preventives of mildew on roses and berry bushes. Dissolve $\frac{1}{2}$ ounce in one gallon of hot water. When cold apply as a spray. Price: 1 oz. 10c, 1-lb. can 50c.



Good-bye! Rat
Terror is too much
for me.

RAT TERROR.—Rats disappear almost instantly after a thorough application of "Rat Terror." By placing it in their holes, and wherever they are likely to run it will quickly rid your premises of rats and mice. Booklet on request.

Rat Terror is an odorless powder—easy to handle. No mussy paste to mix, no fussing—no poison to kill pets or endanger the lives of children.

Price: 15-oz. pkg. 35c, by mail 50c; large can by freight or express 50c.

Pendleton, Ore., June 5,
Routledge Seed & Floral Co.
Gentlemen: That Rat Terror is surely a terror to rats; they disappear like magic.
NEAGLE BROS.

SULPHUR POWDER. Lb. 10c; 100 lbs. market price
SULPHUR CANDLES. Each 10c; postpaid 15c

TOBACCO DUST.—Valuable as an insecticide and fertilizer. Sure preventive for green, fly and beetles as a mulch than the stems.

Lb. 10c, postpaid 30c; 10-lb. 75c

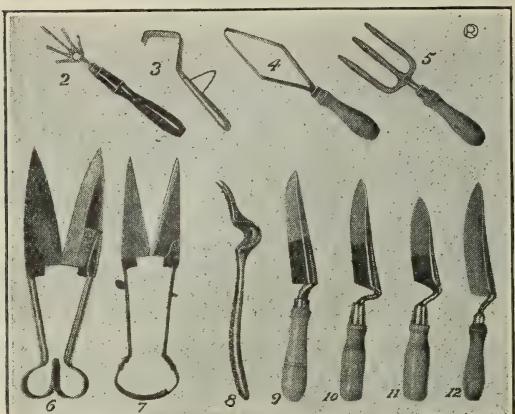
TOBACCO STEMS. Lb. 5c; per 100 lbs. \$3.00

WEED KILLER ("Target Brand").—Guaranteed to destroy weeds, grass, poison ivy and all undesirable vegetation. Keeps roadways and paths free from weeds. Cleans tennis courts and ball diamonds. Cleans alleyways and fence corners. An effective combination of high grade chemicals which diluted in water at 1 to 50 destroys the roots as well as the tops of all vegetation. One gallon diluted will cover 100 to 150 square yards; and one or two applications are sufficient for an entire season.

Price: Pt. 40c, qt. 60c; gal. \$1.25, 5-gal. \$6.00. Write for price per barrel.

WHALE OIL SOAP.—For aphids, plant lice, etc. 1-lb. 10c, postpaid 30c; 10-lb. 85c

Remember, we have the right kind of sprayers to apply above remedies economically.



WEEDERS

		Postpaid.
No. 2	Excelsior.—Five claws, 15c.	20c
3	Langs.—Very handy and popular, 20c.	25c
4	Diamond.—Fine for small plants, 20c.	25c
5	Fork.—Fine for light digging, 15c.	25c
6	Vaughn's Dandelion Puller.—Good, 50c.	60c

GRASS SHEARS

No. 6	B B A.—6½-inch; very highest grade, \$1.75	
	postpaid	\$2.00
7	460.—5½-inch blade; good value.....	40c
	postpaid	65c

TROWELS

No. 9	Solid steel; 6-inch blade and shank.....	35c
10	postpaid	50c
10	Best and strongest; all steel; 6-inch.....	50c
	postpaid	65c
11	Same as No. 10, only 5-inch blade.....	40c
	postpaid	50c
12	Best low-priced; 6-inch blade.....	15c
	postpaid	25c
—	Maynard.—6-inch; highest grade.....	60c
	postpaid	75c

HALL DANDELION PULLER

Here is a tool that gets the dandelion roots and all, without marring or digging up lawns. It is a waste of time and energy to cut dandelions off without getting all the roots.

It is the easiest and quickest way to clear lawns of dandelions and other weeds. Just push the blade down in the ground close to the weed, press towards the weed and pull up. The only tool that does this job effectually. Note the hook near point of blade. This is the patented feature that does the work. It catches the roots, but does not cut or break them. The slot prevents dirt from clogging the hook. The blade is made of polished steel and will last a lifetime. Well finished.

Handle 38 inches long, steel part 8 inches.

Price 50c.

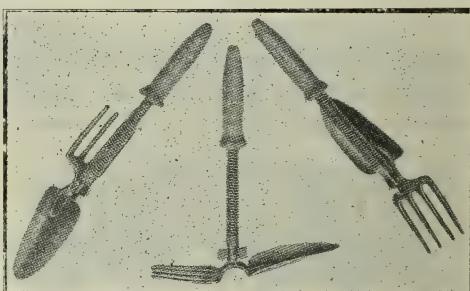


At work with a Hall
Dandelion Puller.

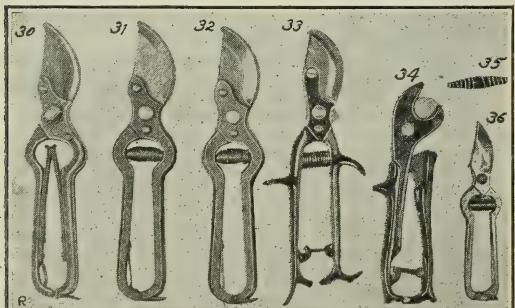
NOTE HOW IT GETS
THE ROOTS

"ALCA" GARDEN TOOL

In garden or greenhouse, in all seasons, this new tool will be found very handy. This remarkable combination tool, in plain words, is a trowel, fork, hoe, weeder and dibble—all in one. While weeding, digging and planting and transplanting flowers and plants, you are saved the annoyance of missing tools. Your five-fold paraphernalia consists of a handy combination tool made of the best selected material—stout and compact—still occupying a small space and weighing less than a pound. A spring releases the particular tool you desire and the fret and worry of handling five separate tools is avoided. You can easily figure out what you save in cost, energy and temper. Price: 60c; postpaid 85c.



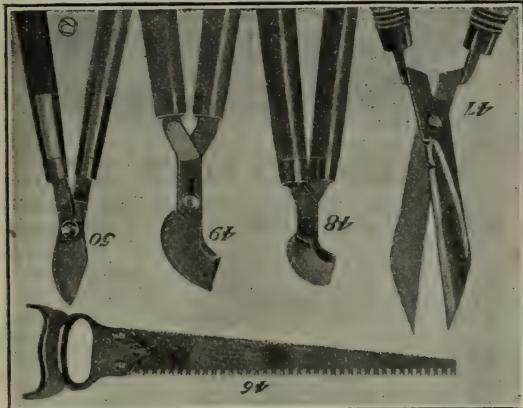
"Alca" Garden Tool.



D-7—7-inch, nickel plated, spiral spring: light
but strong \$1.35
postpaid \$1.50

PRUNING SHEARS

No. 36	5½-inch, nickel plated, spiral spring; best for rose bushes or light pruning.....	\$1.00
	postpaid	\$1.15
37	Same as above, 6½-inch.....	\$1.25
	postpaid	\$1.40
31	9-inch, bright finish, polished blade; good for hard service	\$1.00
	postpaid	\$1.15
32	9-inch, same as 31, only black finish.....	75c
	postpaid	90c
30	9-inch, full polish, double brass spring.....	\$1.50
	postpaid	\$1.70
R-85	9-inch, Swiss, full polish, with extra blade; very fine steel, spiral spring, ratchet nut	\$1.75
	postpaid	\$2.00
33	Black, with polished blade; best cheap shear	\$1.50
	postpaid	\$1.60
35	Extra spiral springs.	15c



TREE PRUNERS

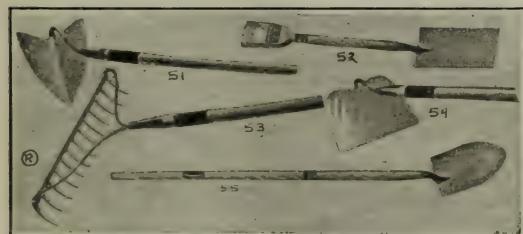
Long handle tree pruners indispensable for pruning tall trees.

Clyde.—No. 15. with spring; 6 feet, 75c; 8 feet, 90c; 10 feet \$1.00; 12 feet \$1.15. Cannot go by mail; freight or express, purchaser's expense.

Note.—This pruner has spring to release blade after cutting branch; no sticking or catching; extra blades 25c each, postpaid.

BUDDING KNIVES

	Postpaid
No. 20 —Ivory handle; 1 blade of best steel.	\$1.00
No. 20½—Same as above; black handle.....	.85
No. 18 —Ebony handle; stationery ivory bark opener	1.00
No. 19 —Wood handle; with good steel blade..	.85
No. 14 —Horn handle; for budding or pruning; 3 blades	1.50
No. 16 —Horn handle; for budding or pruning; 2 blades	1.00
M. & G. Stationary wood handle.....	.80



GARDEN TOOLS

Space will not permit us to illustrate and describe all our garden tools. Call or write for prices on anything wanted.

No. 51.—Best garden hoe; solid steel shank.	75c
52.—Maynard spade, best quality	\$1.50
53.—Solid steel rake, 13 teeth.	80c
54.—XXX flat hoe, best quality.	75c
55.—Maynard steel shovel, very best.	\$1.50

The above are the very best. We have cheaper.

Turf Edgers.—Solid steel shank. 60c

Potato Forks.—Four tines, 4-foot handle. \$1.25

Potato Hook.—Five round tines; goose neck. \$1.00

Floral Set.—Three pieces—hoe, spade, rake; fine for light gardening. \$1.25

Lawn Rake.—Reversible, 24 teeth, 60c; 36 teeth, \$1.00

Grass Hooks or Sickles.—Village blacksmith, hand-forged, 45c; bent handle, 50c.

Sickle Stones.—Three grades. 5c, 10c and 15c

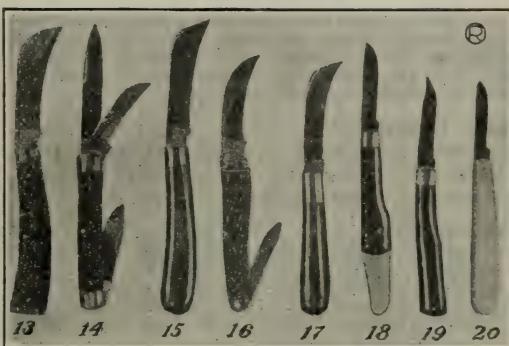
PRUNING SAWS

No. 46—Duplex; double edge; 16-inch.....	75c
18-inch	80c
California; curved blade, 16-inch.....	75c
18-inch	\$1.00

BRANCH SHEARS

Something everyone with a few trees should have; cut easy and are most durable. (See cuts.)

No. 48—Clyde.—Best cheap shear. 20-in. handle	\$1.00
22-in.	\$1.25
50—Fesno.—Long pointed blades of best steel; hardwood handles. 20-in. handle.....	\$1.25
26-in.	\$1.50
49—Red Clipper.—Draw cut with best tool steel blade; hook and shank held together with bolt and lock nut; hard maple handles; best for heavy work; cuts easy. 22-in. handle	\$1.75
24-in.	\$2.00
47—Hedge Shears.—9-inch, high grade steel blades	\$1.75



PRUNING KNIVES

No. 15—Large wood handle; hook blade.....	\$.85
No. 17—Same as above, only smaller .....	.50
No. 13—Large horn handle; excellent blade.....	1.25
M. & G. Plain wood handle; stationary blade...	.50

GRAFTING KNIVES

No. 1—M. & G. wood handle; stationary blade..	\$.35
No. 2—Same as above, only smaller.....	.25

GARDEN OR ROSE STAKES

Cedar.—Round; painted green, white top. Per doz.
3 ft. 75c; 3½ ft. 80c; 4 ft. 85c; 5 ft. \$1.25;
6 ft. \$1.75; 8 ft. \$2.25.

Bamboo.—Very desirable and inexpensive for vegetable or flowering plants of any kind. The larger sizes are excellent for dahlias, tall growing perennials, roses, etc.

Note.—State for what purpose you want them, as we have them from pencil thickness (¼-inch) up to 1¼ inch.

Price per dozen: 1½-ft. 10c; 2-ft. 15c; 3-ft. 20c;
4-ft. 25c; 5-ft. 30c; 6-ft. 50c; 8-ft. 75c. Write
for low price by the 100 or 1000.

SPRINKLERS

SPRINKLING CANS.—Strong and well made.
4-qt. 30c; 6-qt. 40c; 8-qt. 50c; 10-qt. 60c; 12-qt. 75c

SCHOLLY PLANT SPRAYERS.—Made of best quality rubber and most convenient for spraying house plants.
No. 1, 5-oz. 65c; No. 2, 10-oz. \$1.25



JARDINIERES, ETC.

We carry in stock a large and complete assortment of the best styles and latest designs. Limited catalog space will not permit us to illustrate and describe them, but we are sure we can please out-of-town customers if they will give us inside measurements required, and say how much they want to spend.

We also have in stock 12 to 18-inch garden and porch vases or urns of fancy designs in pottery and wood. These are very ornamental and desirable for flowering plants, palms, etc. Prices on request.

LABELS

The tree and pot labels we offer below are strictly No. 1 labels, smooth and well wired. The painted labels are "really painted," not dipped in oil. Ordinary lead pencil writing on the painted labels is always readable; it don't wash off.

TREE LABELS.	25	100	M.
Painted, copper wired	\$0.15	\$0.25	\$1.50
Unpainted, iron wired .....	.10	.15	1.25
Aluminum, copper wired .....	.60	2.00	

POT LABELS

Painted, 4-inch .....	.10	.20	1.25
Painted, 5-inch .....	.15	.25	1.50
Painted, 6-inch .....	.15	.30	2.00
Painted, 8-inch .....	.20	.50	5.00
Painted, 10-inch .....	.25	.75	6.00



STANDARD POTS, ETC.

Fig. 1—Fern Dish Filler; 2—Bulb Pan; 3—Azalia or Fern Pot; 4—Flower Pot. All styles same prices.

Prices.	Saucers.
Size	
2-inch	Each. \$0.02
3-inch	Doz. .30
4-inch .....	.40
5-inch .....	.60
6-inch .....	.90
7-inch	1.20
8-inch	1.75
9-inch	2.50
10-inch .....	.40
12-inch .....	.60
14-inch	1.50
15-inch	1.50

FLORISTS' SUPPLIES

Glazing points.	Per M. 75¢
Mastic.	Per gal. \$1.50
Masticia Machines.	Each \$1.50
Moss.	Lb. 5c; 100 lbs. \$3.00
Putty bulbs.	Each \$1.00
Tin foil.	Lb. 20c; 10 lbs. \$1.50
Grafting wax.	1/4 lb. 10c; postpaid 15c; lb. 35c
Raffia.	lb. 25c, postpaid 50¢

WIRE HANGING BASKETS	6-in. 15c; 8-in. 20c; 10-in. 25c; 12-in. 35c; 14-in. 50¢
WIRE DESIGNS	We can supply wire designs for floral pieces, any style. Write for prices on anything wanted.

GARDEN SEEDERS, CULTIVATORS, ETC.

Hall E-Z Garden Cultivator

Just the right size and the right price for the average garden maker. Everyone who makes much garden should have one, as it reduces the labor one-half.

A combination tool for all kinds of garden work, from first plowing to the last cultivation. Does away with the tiresome hoeing, weeding, etc. Makes gardening a pleasure.

Equipment consists of a Flow for cultivating, hillling, plowing; a Rake for light cultivating, harrowing, weeding; a Weeder for cutting and loosening soil; a Diamond Point for making seed furrows, hillling, etc.; a Bull Tongue for cultivating between narrow rows.

The patent spring device as shown in cut between the handle and tool is an exclusive feature of the Hall Cultivator. It causes the tool to run even and steady without jar on the arms.

The handle can be adjusted to correct height for a child or tallest man. Power is applied direct to axle, making it easy running. Sixteen-inch wheel. Note the narrow, compact build of this tool, enabling one to use it between narrow rows and close up to the plants. Weight, complete, 15 lbs.

Price: Complete, \$4.00.



E-Z
Garden
Cultivator
No. 1.
Complete with
five tools,
one reversible.
Price, \$4.00.

PLANT SMALL FRUITS around your garden. What's nicer than delicious fresh fruit, fresh from your own garden? See Fruit Department, pgs. 93 to 100.

Cahoon Broadcast Seeder

The standard broadcast seed sower, made of steel, iron and brass, will last a life time. Has force feed. Every farmer should have one, as it sows perfectly any kind of seed or grain. Full instructions with each machine.

Price \$3.50

Iron Age Tools

These implements are well and favorably known everywhere; they have many staunch friends who claim they are superior to other makes. One very desirable feature is the large size wheels, making them most easy to run.

Iron Age No. 6. Combined Double and Single Wheel Hoe, Hill and Drill Seeder

Price \$14.50; with 2 hoes and 4 cultivator teeth, only \$12.50. Hill and Drill Seeder only \$11.00. Garden Disc Cultivating Attachment \$2.35 extra. Sows seeds in continuous rows or drops in hills at 4, 6, 8, 12 or 24 inches apart. Lever makes quick change. Opens its own furrow, covers it and packs the soil. Has accurate feed, without injury to the seed. Latter is dropped in plain sight—no guess work. The high wheel runs easy. The seeder part is quickly detached when wanted as a double wheel cultivator.

Iron Age No. 1. Double and Single Wheel Hoe.

Price with tools, as shown in cut, \$8.65. No. 3, 2 hoes only, \$5.45. No. 13, with 2 hoes and 4 teeth only, \$6.85. Opens and closes furrows, takes care of first working without danger to the young plants, goes astride or between the rows, cultivates, weeds, levels, etc. 16-inch wheels and high arch. For narrow rows use a single wheel inside. Does a day's work in 60 minutes. Saves old-fashioned back-breaking work—you walk upright with this tool and weeds never get the best of you. Remember the large wheels—easy running.



Combined No. 6 Iron Age

Iron Age No. 20. Single Wheel Hoe.

This is a most convenient and serviceable tool. Light but strong, and runs nicely on account of the high, 16-inch broad-faced wheel. Price complete, as shown in cut, \$7.20; No. 21 plain with hoes only, \$4.85.



No. 20 Iron Age, Single Wheel Hoe

"Planet Jr." Tools

Known and used the world over. Recognized as "perfection" in quality and finish. We will gladly mail handsomely, illustrated and descriptive catalog, giving full information.



Planet Jr. No. 4 Combined Hill and Drill Seeder, Wheel Hoe Cultivator and Plow.



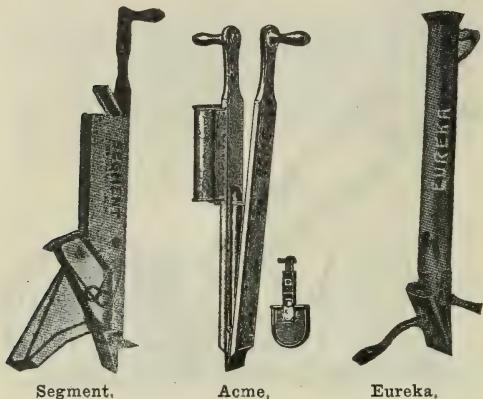
Planet Jr. No. 25 Combined Hill and Drill Seeder and Double Wheel Hoe, Cultivator and Plow.

General Price List Planet Jrs.

- NO. 4—Combined Hill and Drill Seeder and Single Wheel Hoe Cultivator and Plow (see cut) \$12.00. Drill only \$10.00.
- NO. 25—Combined Hill and Drill Seeder and Double Wheel Hoe, Cultivator and Plow, \$14.50.
- NO. 3—Hill and Drill Seeder, \$11.50.
- NO. 12—(See cut.) Double Wheel Hoe, \$7.85.
- NO. 13—Double Wheel, 2 hoes only, \$5.50.
- NO. 14—Double Wheel Disc Hoe, Cultivator and Plow, \$9.00.
- DISC HOES for Wheel Hoes, per pair \$3.00.
- NO. 17—Single Wheel Hoe, \$5.75
- NO. 17½—Single Wheel Hoe, \$5.25.
- NO. 18—Single Wheel Hoe, \$4.25.
- Twelve-Tooth Harrow, complete \$10.50.
- No. 8—Horse Hoe and Cultivator, complete \$10.50.



Planet Jr. 12, Double Wheel Hoe



CORN PLANTERS

Acme.—Two-hand type; weight 4 lbs.; length 35 inches; a popular and successful planter. Strong and durable; sure in its work. Will plant corn, peas and beans. (See cut.) Price \$1.00

Segment Automatic.—One-hand type; weight 4 lbs.; length 34 inches. An excellent, handy and serviceable planter. Can be adjusted for corn, beans or peas. You plant accurately and evenly as fast as you walk. (See cut.) Price \$1.50

POTATO PLANTERS

Eureka Tubular.—Weight 4 lbs.; length 36 inches. This is the lightest and best tubular planter made. With this planter one man can plant several times as much ground without getting a lame back as he can plant by hand. The planter locks itself as it is lifted out of the ground, so that the next potato may be dropped in at once, and opens automatically as the top of it is moved forward in walking. (See cut.) Price \$1.50

Pingree.—Practically the same as the Eureka, without the tube down the handle. You lift the planter up and drop the potato in the lower part. It is light and a very satisfactory planter. Price \$1.25

The Rolling of Lawns.

It is absolutely impossible to keep a lawn, large or small, in perfect condition without rolling, no matter how many other things may be done in taking care of it. This fact should be well understood by the large and growing army of Americans who take pride in the beauty of the lawns surrounding their city or country homes. Ask for booklet—"The Proper Care of Lawns"—free.

WATER-WEIGHT LAWN ROLLERS

These are the most satisfactory and serviceable rollers on the market. Important features: Easy running, roller bearing, electric welded, no rivets, cannot leak, perfectly smooth drum, and can be made heavy or light, according to the work required. (See cut.) Easy to fill or empty, and the largest size can be operated by one man.

NO. W. B. 3.—One section, 14x20 inches. Weight, empty, 60 lbs.; filled, 200 to 300 lbs. Price \$11.00

NO. W. B. 5.—One section, 18x24 inches. Weight, empty, 75 lbs.; filled, 300 to 500 lbs. Price \$13.50

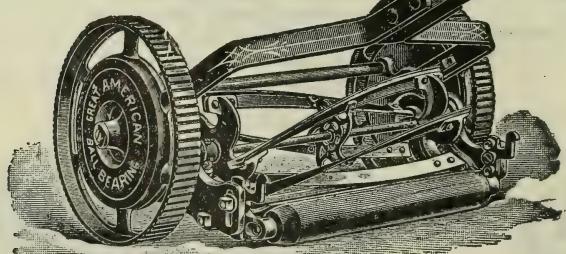
NO. B. W. 7.—One section, 24x24 inches. Weight, empty, 125 lbs.; filled, 500 to 800 lbs. Price \$18.50

NO. W. B. 11.—Two sections, each 16x12 (total length, 24 inches); weight, empty, 100 lbs.; filled, 300 to 500 lbs. Price \$20.00

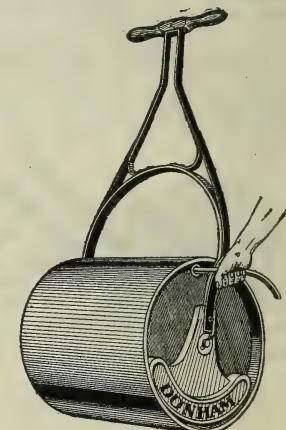
LAWN MOWERS

Great American Ball-Bearing.—Open cylinder, 5 blades, 10-inch wheel, solid cast steel butting knives, hardened in oil; steel balls of highest grade, placed in dust-proof steel cup; cuts close; easily adjusted. 15-inch, \$10.50; 17-inch, \$12.50; 19-inch, \$18.50; 20-inch, \$16.00.

Great America.—Closed cylinder, 3 blades, 7-inch wheel; hardened and tempered solid cast steel cutting knives, positively self-sharpening. 12-inch, \$7.00; 14-inch, \$8.00; 16-inch, \$9.00; 18-inch, \$10.50.



Great American Lawn Mower.



Dunham Roller.

See how easy it is to fill. Take out the plug and fill from a hose.



Faultless.—Best cheap lawn mower for money; has 3 blades tempered tool steel; good adjustment, 14-inch \$3.50; 16-inch \$4.00.

GRASS CATCHER

Success.—Most handy and durable; canvas sides, galvanized bottom. Always ready. No. 1, for 14 to 17-inch mowers, \$2.00; No. 2, for 18 to 21-inch mowers, \$2.50.

Simplex.—Good, cheap grass catcher; common sides, galvanized bottom wire frame. No. 1 for 14 to 17-inch mower, \$1.50; 18 to 21-inch \$2.00.

For Grass Hooks, Shears, Sickles, Etc., see pgs. 108-109.

R. R.'S EVERGREEN LAWN GRASS SEED and WILGROW makes those beautiful green, velvety lawns so much admired. See pgs. 46 and 101.



Routledge Seed & Floral Co's UP TO DATE "HIGHEST QUALITY" POULTRY SUPPLIES

We are devoting the following pages of this catalogue to incubators, brooders, poultry supplies of all kinds, poultry food, remedies and insecticides, etc., and are offering you what we believe to be the best line of poultry supplies in the West. We have practically everything needed and used in the profitable rearing and keeping of poultry.

OUR MOTTO, "Quality first—price as low as we can make it," will be strictly adhered to in this department, as well as in our other stocks.

WE ARE AUTHORIZED AGENTS FOR

Genuine STANDARD CYPHERS' INCUBATORS Patented

Last year we sold nearly 2 full carloads of Cyphers Incubators and Brooders, and only had one complaint, a record that could not be made with any other make. It proves the following facts.

Practical poultry raisers who mean business and desire the greatest possible success should look for and demand the qualities that have made Cyphers Incubators world famous.

FIRE-PROOFED
INSURABLE
SELF-VENTILATING
SELF-REGULATING
NON-MOISTURE
EFFICIENT, DURABLE AND
POSITIVELY GUARANTEED.

A COMPLETE LINE FOR 1913

We offer our customers the Cyphers Co.'s complete line of incubators and brooders—best on the market. For years Cyphers' incubator has been consistently improved, always maintaining its leadership, until today it represents all that is most efficient, convenient and reliable in incubator construction.

DEMAND THIS LABEL—YOUR SAFETY, ON YOUR INCUBATOR.

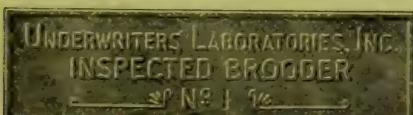


STANDARD
CYPHERS INCUBATOR
Fire Proofed-Insurable.

No. 2—244 Egg Size—Note the deep full size chick drawers and nursery.

TO OWN A CYPHERS is to have an incubator that stands first, not only because it has affixed to it the fire insurance label granted by the National Board of Fire Underwriters and bears a world-wide reputation, but because of the well established fact that it is the best hatcher of large, vigorous, liveable chicks. It is positively guaranteed to out-hatch any other make of incubator under widely-varying conditions, season after season, and to last ten years without repairs.

THE PRINCIPLES OF CONSTRUCTION that have made Cyphers Incubators "the world's standard hatchers" for the last twelve to fifteen years remain unchanged in the 1913 pattern. Their patented features, their entire freedom from the bothers, disappointments and losses common to the "cheap" or "bargain" incubator, make these high-class machines the best for you to own first, last and all the time. They are used with unequalled success in all parts of the civilized world, under every practical condition by men and women in all walks of life. They are money savers and money makers for poultry raisers who "mean business"—for men and women who want a real incubator with which to get out of poultry keeping all the profit and all the pleasure there is in it.



Form of Brass Label to be Found (in serial numbers) on Every Standard Cyphers Incubators, All Sizes.

NOTE.—The demand last year for Cyphers' machines on this Coast was greater than the supply, even though more than ten full carloads came west of the Rockies. BE WISE—ORDER EARLY this year for the demand will be even greater.

CYPHERS' INCUBATORS—Continued

CYPHERS' INCUBATORS have now been on the market sixteen years and today are used by more Government Experiment Stations, on more large, practical poultry plants, on more successful duck and egg farms and by a larger number of foremost poultry breeders than all other makes combined. For proof of these statements send to us for a copy of Cyphers Incubator Company's latest catalog.

Persons who earnestly desire to succeed in the poultry business should have the right tools with which to work. Write for free illustrated catalog, telling all about these superior hatching machines.

We have only one price, that set by the manufacturers, which makes them the cheapest incubators on the market, everything considered.

Sizes and Portland prices. Cyphers' Fire-Proofed Incubators.

Size.	Price.
No. 0.—Holds 70 hen eggs.....	\$16.50
No. 1.—Holds 144 hen eggs.....	23.75
No. 2.—Holds 244 hen eggs.....	34.00
No. 3.—Holds 390 hen eggs.....	40.00

Cyphers' Electric Incubators and Brooders

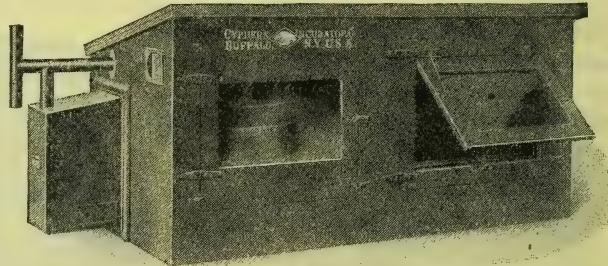
We carry in stock and can supply promptly these up-to-date and successful electrical machines. If further interested write for catalogue of illustrations and prices.

STANDARD CYPHERS' COMBINATION BROODERS FOR 1913—FIRE-PROOFED, INSURABLE, SELF-REGULATING.

Cyphers unequalled Apartment Brooders and Combination Roosting Coops have the same important advantages over all other makes that are possessed by Cyphers Company's 1913 incubators, in that they are fire-proofed and insurable, having the first fire insurance inspection label ever granted on a brooder.

CYPHERS' 1913 BROODERS, every size and style, are self-regulating, self-ventilating and vermin proof. The outdoor styles are usable also as colony coops for the growing chicks. They are easily and quickly converted into colony roosting coops by simply taking out the hover, which is made removable for that purpose.

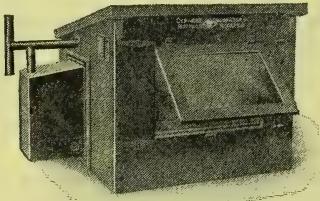
THIS DOUBLE USE of the Cyphers Brooder means a considerable saving of money. It makes a safe and comfortable enclosure for the young chicks at night and saves the buying of a coop for them. These outdoor brooders, on account of their fire-proof construction, can be used indoors, although we supply a special brooder, Style D, for indoor pur-



Cyphers "Style B" 3 Compartment Outdoor Brooder.

poses. All Cyphers 1913 Brooders, both outdoor and indoor, contain either two or three apartments. The popular Style B (shown in illustration herewith), contains three apartments—first, roomy space under the hover; second, hover chamber; third, well-lighted exercising apartment. It has often been said by users of the Cyphers Brooders that

They Mother the Chicks Better Than a Hen.



Cyphers "Style A" 2 Compartment Outdoor Brooder.

Style A shown herewith is our most popular seller, on account of lower price and saving in freight. You can easily build and join on an additional coop for a feeding and exercising room on wet or rainy mornings. Same size as first section Style "B."

AN IMPORTANT REASON for this is found in the great practical advantage possessed by the entire line of Cyphers Brooders for 1913 in their self-regulating feature. For years the self-regulator was attached only to the highest priced Cyphers Brooder (Style C), but it was so well received that now it is attached to all the Cyphers Company Brooders. It automatically regulates the heat in the brooder underneath the hover at all times, whereas in brooders without a regulator the heat has to be governed by a continuous watching of the lamp and turning the wick up or down whenever more or less heat is required.

Cyphers' large Illustrated Catalogue on request.

Portland prices Cyphers' Combination Brooders.

Style A, Two Apartment Outdoor Brooder, capacity 75 chicks.....	15.00
Style B, Three Apartment Outdoor Brooder, capacity 100 chicks.....	19.50
Style D, Two Apartment Indoor Brooder, capacity 75 chicks.....	14.00

Remember all Cyphers Brooders are Fireproofed and Insurable.

Reduce your high cost of living by raising your own poultry and eggs. By up-to-date methods you can do it with very little trouble.

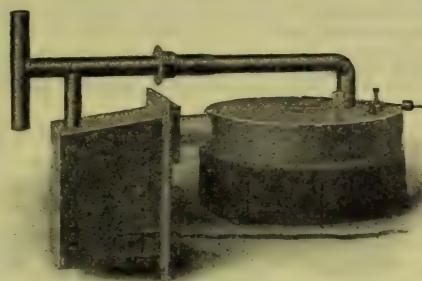
Cyphers' Adaptable Hover

Adapted for use anywhere that is suitable for confining or yarding chicks or ducklings.

IN ADDITION to our unequalled line of brooders, we are permitted to offer separately the Cyphers Company's world's challenge **Adaptable Hover**. This self-regulating heater is used in each of the four styles of individual brooders manufactured by Cyphers Incubator Company for 1913. This machinery-made, all-metal, guaranteed fire-proof heating and brooding device is suitable to be used anywhere that heat is required for brooding chicks or ducklings. It can be used in a roosting coop, colony house, shed, hen house, barn or other building with or without any additional enclosure for the chicks, or in a large goods case or piano box or home-made brooder. Is equipped with an automatic regulator, is self-ventilating; and easily adjusted to any use.

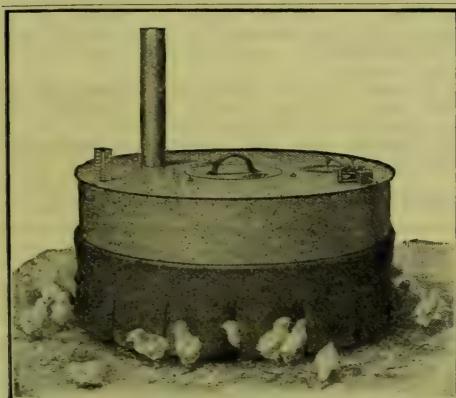
Is pronounced by thousands of users to be the best device thus far invented for heating home-made brooders. Recommended especially for use in long brooding houses, one hover for each pen. This adaptable hover is complete in itself, bears underwriters' insurance label and is safe to use anywhere. Weight, boxed for shipment, only 40 pounds; capacity 75 to 100 chicks. **Portland Price, \$10.00.**

CYPHERS CATALOG FOR 1913 contains fully illustrated description of these self-regulating, fire-proofed hovers, also of the entire line of Cyphers apartment brooders, etc., etc. Free on request.



Cyphers "All-Metal" Adaptable Hover.

NOTE.—You fill and trim the lamp, without disturbing the chicks.



Cyphers New 1913 Portable Hover.

Remember

We sell eggs and thoroughbred poultry. See page 127.



Shipping Coop.

Cyphers' New Portable Hover

For Handy and Economical Brooding of Chicks and Ducklings. Is Self-Regulating, Self-Ventilating and Indestructible.

SELF-REGULATING—This Hover has the same high-grade, dependable, toggle-joint, zinc and steel thermostat that is used on the entire line of Cyphers Brooders.

SELF-VENTILATING.—This latest improved Portable Hover is positively and infallibly automatic in ventilation; made so by the ingenious but simple construction.

CAPACITY.—It will hover comfortably one hundred newly hatched chicks, but we advise strongly against trying to brood chicks in flocks greater than fifty to seventy-five—the smaller number preferred at all ages.

HEATING POWER.—Used without a brooder case, will operate perfectly in any temperature above the freezing point. With a brooder case and used indoors it will operate successfully in any temperature down to the zero mark.

ALL-METAL AND FIRE-PROOF.—There is absolutely nothing about this Hover to take fire or burn up.

PORTRABLE MEANS MOVABLE.—Can be picked up at any time—Hover, lamp-box, lamp and regulating device, all complete and moved to any place the operator may desire, and the device will continue in operation right along. The lamp need not be removed at this time or the wick as much as turned down.

PLACES TO USE.—Was designed expressly for indoor use, in brooder houses and other poultry buildings, in dwellings or in well-built and well-lighted apartments of any kind. Will do excellent work in colony houses, in large sized brood coops, etc.

PRICE COMPLETE, with regulating device, seamless bowl lamp, fire-proofed curtain, tested thermometer, etc., safely packed for shipment, is \$9.50.

CYPHERS' POULTRY BOOKS

These new books are inexpensive, but most valuable. They are written by practical men who have made a success. See page 128.

UP-TO-DATE SHIPPING COOPS for fancy poultry.

These coops are really "up-to-date" and will give your customers that impression of you if you use them when shipping. Buyers who pay fancy prices for thoroughbred birds like to see them come in a nice coop—not some old cracker box or oil case. These coops are light but strong. The ends have the cleats nailed on. We ship in the flat to save charges, but it's an easy matter to nail them together, for each part is marked.

No.	Width.	Length.	Height.	Price.
No. 2	10 1-2 in.	18 in.	24 in.	Each 40c Doz. \$4.00
No. 4	10 1-2 in.	24 in.	24 in.	Each 50c Doz. 5.00
No. 6	19 1-2 in.	24 in.	24 in.	Each 60c Doz. 6.00

Capacity.—No. 2 suitable for single birds or pair Mediterraneans. No. 4 for Asiatic male, American or Mediterranean pair or small trio. No. 6 for a pen of five birds, any variety. (Not made taller this year.)

LIKE FRIED CHICKEN? With a small Incubator and Brooder you can raise 100 chickens to frying age in a space 10x20 feet and with an outlay not exceeding \$20.00, and have your outfit left. We can tell you how. Ask our expert.

BUCKEYE HOT WATER INCUBATORS

It is no longer a wonderful feat to build an incubator that will hatch some chickens from some eggs, but the truly successful incubator must hatch a chicken from every hatchable egg.

In addition to that every chick must be a vigorous, healthy specimen that starts to grow the moment it is hatched, and continues to grow without forcing or doctoring.

THAT'S THE RECORD OF THE BUCKEYE!

Many of them have been purchased by persons who could scarcely read—yet, the results have always been the same. They hatch every hatchable egg.

For twenty-two years Buckeye Incubators have been sold with a guarantee to hatch every hatchable egg.

The Buckeye is so simple that a boy or girl can operate it. That's the secret of its wonderful success.

Construction of Buckeye 1913 Incubators

The Buckeye incubators are double walled, well made, properly constructed and guaranteed for five years. They are not finished so elaborately as some, but are nice enough for any one. They are "built for business" and guaranteed to "hatch every hatchable egg."

Their circulating hot water system has been used successfully for twenty-two years. Every Buckeye heater is made of a specially prepared rust-proof metal. The lamp and lamp support is excellent, and is made strictly in accordance with the requirements of the insurance underwriters' laboratories, so that each Standard Buckeye Incubator now bears "The Underwriters' Label."

The thermostat regulator is perfect and far superior and more expensive than the "disc" or "wafer" regulators used on most other incubators.

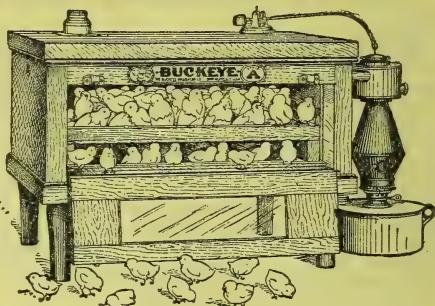
The 1913 Buckeye Circulating Hot Water System makes the control of ventilation and moisture the simplest thing imaginable, without complicated valves and slides.

A constant supply of pure, fresh air is flowing through the egg chamber twenty-four hours every day. The circulating air that passes through the incubator contains all its natural moisture, too.

The Buckeye system is so nicely adjusted that the eggs get just the correct amount of moisture all the time without the aid of artificial methods. Therefore, with a Buckeye, you have no ventilation or moisture worries. Its purely automatic, and you can't make a mistake.

BUCKEYE, STYLE A, 60-EGG.

It is made exactly like the "Standard 60" except for the absence of the lamp support, and the legs which are shorter. It can be operated on a table or platform. The only thing that is cheap about this incubator is the price.



Style A, (short legs) 60-Egg Buckeye Incubator.

READ THIS

Portland, Ore., Feb. 24, 1912.

Routledge Seed & Floral Co., City.

Gentlemen: When I bought my Buckeye Incubator, advertised to "HATCH EVERY HATCHABLE EGG," I did not expect it would do it. I thought that an average of 75 to 80 per cent was all that anyone should expect; but here is my first report:

Set 60 eggs; on the eighth day tested out 12 infertile eggs. Every fertile egg hatched, although one was a cripple.

The Buckeye has made good. It really did "HATCH EVERY HATCHABLE EGG."

Yours truly,

(Signed) W. H. BAILAMENT,

BUCKEYE, STYLE C, 50-EGG.

A low priced yet most successful incubator. The heating system is exactly the same as used in all Standard Buckeyes. The big saving in cost on this incubator is made in the construction of the case. They are not equipped with a nursery which makes quite a saving without detracting from its efficiency. Instead of using a double thickness of lumber we use a single one. Instead of two coats of varnish it receives one. Instead of French spring catches common door buttons are used, and there are some further savings in hardware and finish.

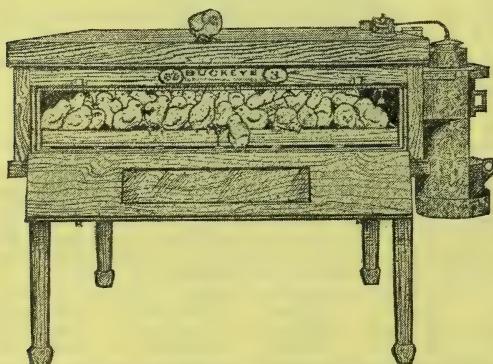
This economy, however, does not in any sense affect the hatching qualities of the incubator.

Price List and Capacity Buckeye Incubators.

Each machine contains a printed Buckeye guarantee, instruction book, thermometer, egg-tester and extra tray.

	BUCKEYE.	SIZE.	WEIGHT.	PRICE.
Style C (short legs)	50-egg	40 lbs.	\$ 8.00	
Style A (short legs)	60-egg	60 lbs.	10.00	
Style A	60-egg	85 lbs.	12.00	
No. 1	110-egg	110 lbs.	18.00	
No. 2	175-egg	135 lbs.	23.00	
No. 3	250-egg	200 lbs.	30.00	
No. 4	350-egg	230 lbs.	38.00	

NEW 1913 MODELS.—Those who are acquainted with the Buckeye line will note that we offer larger sizes this year and that the hot water tank and heaters are changed and much improved. Those who prefer hot water incubators will be pleased with a 1913 Buckeye.



250-Egg New Style 1913 Buckeye Standard.

BUCKEYE COMPLETE 1913 CATALOGUE.—If you want to read in detail just how the Buckeye is constructed—why it's so simple and easy to operate, ask for complete 1913 Buckeye catalog.

BUCKEYE TOP HEAT SELF REGULATING BROODERS.

Limited space in this catalogue will not permit us to go into details and tell you "all the good things" about the Buckeye Brooders, but we will gladly mail a fully illustrated and descriptive catalogue on request.

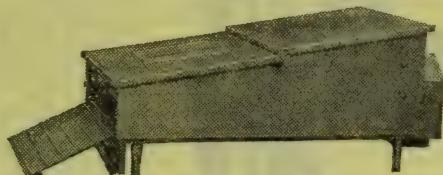
Here, we must be brief and to the point. To start with we believe a good artificial brooder is better than a mother hen. By good we mean one properly constructed, one with the proper system of heating and ventilation.



Indoor Self-regulating, Buckeye Brooder.

BUCKEYE INDOOR BROODERS

Are made of one-inch matched lumber and are put together to stay. They receive two coats of the best paint, and with ordinary care will last ten years.



Outdoor Self-regulating, Buckeye Brooder.

BUCKEYE OUTDOOR BROODERS

Are built of one-inch lumber throughout, with a double thickness of flooring under the hover. The roof is covered with heavy galvanized steel. The skylights are so constructed that a leak is impossible. The lamp is encased in a heavy galvanized steel box that is wind and weather-proof. It can't blow out.

General Construction

The Heating

In the Buckeye Brooders, the hot water tank, which is suspended above the chicks, keeps every corner of the brooder at exactly the same temperature; it's this even distribution of heat that prevents the chicks from crowding. But even distribution of heat don't cover it all; the heat must be just right.

THEREFORE TAKE NOTICE.—All Buckeye Brooders except the Lampless are equipped with an automatic heat regulator that absolutely controls the heat; and keeps it just right, regardless of weather conditions.

The circulating hot water system protects the chicks in case the lamp should be neglected or accidentally put out, for the hot water will stay hot long after the lamp goes out.

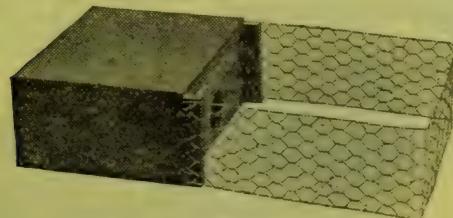
The Ventilation.

Little chicks, to do well, must have fresh air. In the Buckeye they get a constant circulation of fresh air without being exposed to the slightest draught.

The Exercising Yard.

If it's bad for people to eat and sleep in the same room, it's bad for chickens, so the Buckeye is provided with a separate room or yard where the chicks feed and exercise.

The above conditions and other features not mentioned here on account of limited space, make the Buckeye a perfect Brooder, with absolute heat regulation, plenty of fresh air, and freedom from crowding.



Indoor Lampless, Buckeye Brooder.

Adaptable and Portable Hovers, inexpensive and very popular. See pg. 115.

Chick Life Insurance

Insure the life of your chicks by feeding our High Quality Sterling Chick Feed, put up under the Pure Food Law and guaranteed. See page 122.

PRICE LIST AND CAPACITY. BUCKEYE TOP HEAT SELF-REGULATING

BROODERS.

Every Brooder complete and ready for use.

No. 1—50 Chick—Indoor.....	\$ 8.00
No. 2—50 Chick—Outdoor.....	12.00
No. 3—100 Chick—Indoor.....	10.00
No. 4—100 Chick—Outdoor.....	18.00

BUCKEYE LAMPLESS BROODERS.

The Lampless or Fireless Brooder is no longer an experiment, it is a success and is becoming more popular each season. Lampless Buckeye Brooders are so constructed that the heat of the chick's body is retained under the felt hovering, where the little babies are "as snug as a bug in a rug."

Every requirement is equally well met; these brooders require no lamp—consequently less care and less expense—two items that are worthy of serious consideration.

They are especially adapted for use on this Coast on account of our mild weather. However, for use in cold sections, or very early in the Spring, we, ourselves, believe that the heated brooder is preferable, unless you will keep the lampless brooders in a heated room or house. Under any conditions, they make an excellent and inexpensive "second brooder" for the older chicks.

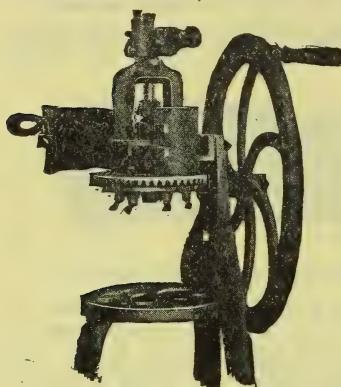
We believe in Buckeye Brooders. After years of incubator selling, we realize only too keenly that no matter how successful you may be hatching chicks, you can't be successful raising chicks unless you use a good brooder. Whether you hatch your chicks with a Buckeye or some other incubator you will not miss it by raising your chicks in a Buckeye Brooder.

PRICES BUCKEYE LAMPLESS.

No. 5—Lampless, 25 Chick—with wire yard, wt. 5½ lbs.....	\$ 2.00
No. 6—Lampless, 50 Chick—with wire yard, wt. 8½ lbs.....	3.00

POULTRY SUPPLIES

We aim to keep in stock all up-to-date and useful appliances for poultry raisers. If you want something not listed herewith, write us. We probably have it, or will gladly get it for you, saving you time and money.



Mann's No. 7 for Green Bone.

BONE MILLS

MANN'S GREEN BONE CUTTER.—Without any doubt the best and only successful green bone cutter on the market today. The No. 5-B and No. 7-BM are the two best and most popular sellers. Descriptive catalog free on request.

MANN'S NO. 5-B.—Has a large balance wheel, making it easy to operate. Should be mounted on a bench. Has four knives, large, solid cylinder, and has the latest patent automatic governing spring feed, which makes it one of the best low-priced bone cutters ever offered. Price \$10.00

MANN'S NO. 7-BM.—The new No. 7-BM is mounted on a strong iron stand, and has patent automatic governing spring feed. Large, open-hinged cylinder, giving instant access to all working parts, has six knives, gear guard, anti-clog device, heavy balance wheel and other improvements. (See cut.) Price \$15.00

NO. 32 HAND GRINDING MILL.—In this mill are embodied all the good features of other hand grinding mills to which have been added universal burrs or grinding plates that are quickly adjusted and locked for grinding coarse or fine. This machine will grind any kind of grain or seeds, dry bone, shells, crockery, etc., for feeding to poultry. Has a 16-inch fly wheel and is light running; the capacity is not equalled by any other of the same size. We believe this is superior to the "Wilson," which we have sold heretofore. We can supply Power Sizes. Write for descriptive pamphlet. Weight, 40 pounds. Price \$5.50

LIVE CHICK BOXES for shipping.

Made of heavy corrugated paper, especially for shipping baby chicks. Used by the thousands in the East.

Prices, 25 chick size, 20c each, \$2.00 dozen; 50 chick size, 25c each, \$2.50 dozen; 100 chick size, 40c each, \$4.00 dozen.

EGG BOXES OR CARRIERS

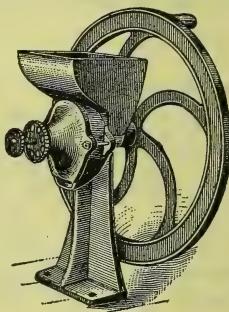
ANDERSON FOLDING EGG BOXES.—(See cut.) Very popular and a safe box for delivering fancy eggs for hatching. Made of heavy corrugated paper; light but strong. Up-to-date poultrymen should use this box in place of the old style basket.

15-egg size, each 15c, doz. \$1.50; 30-egg size, each 25c, doz. \$2.25; 50-egg size, each 35c, doz. \$3.50; 100-egg size, each 60c, doz. \$5.25.

Sample, 15-egg size, postpaid 25c.

IDEAL EGG BOXES.—Hold one dozen eggs; very nice for private trade. They save time, eggs and money. Your customers return them, therefore you are out nothing.

Price, per doz. 30c; 100 \$1.25; low prices by the thousand



No. 32 Mill—You Need One.

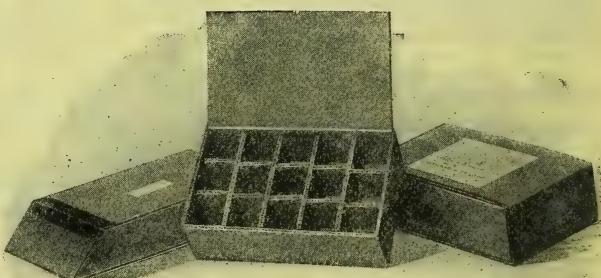
DIAMOND EGG CARRIER

A new style egg carrier of great merit. Light, strong, neat and low-priced. Order a sample and see.

Diamond Egg Carrier is something entirely new and in a class by itself. It is shipped in the flat, thereby saving a large amount on freight and express.

The peculiar construction of the box in V-shaped wedges enables us to make it of very light material while still retaining great strength so that a man can stand on them. It is easily set up.

A child can put them together and pack the eggs. They can be packed on a moment's notice. The eggs do not come in contact with the outside of the box at all, having a cushion on all sides, and being wrapped in tissue paper, there is no jar, thus insuring safe transportation. Eggs cannot be taken out or substituted without detection. If properly



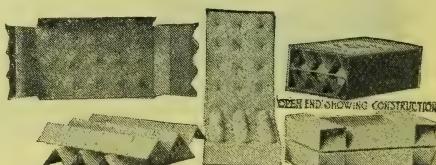
Anderson Egg Packer—Up-to-Date and Safe.

packed, the Diamond Egg Carrier can be dropped a distance of six feet and not harm the eggs. We defy any manufacturer of any other box to put theirs to this test. Packed in two sized packages, dozens and fifties, each package being complete in itself and containing address labels, gum paper and tissue paper.

SIZES AND PRICES.

Size	Each	Dozen	Fifty
15 egg size	15c	\$1.50	\$ 5.50
30 egg size	25c	3.00	11.00
25 egg size	25c	2.50	9.50
9 egg size for turkey and duck	15c	1.50	
9 egg size for goose	15c	1.50	

For 50, 75, or 100, order the 25-egg size. Sample 15-egg size, postpaid, 25c.



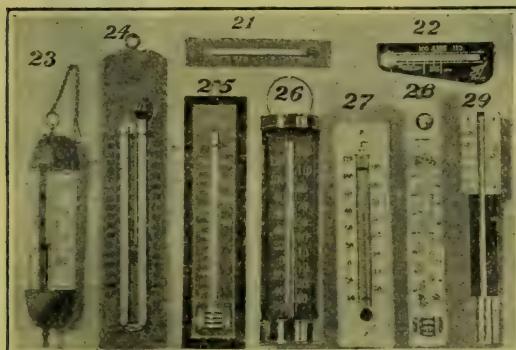
New Cushion, Diamond Egg Carrier

Order your Egg Carriers early and have them on hand when wanted. Don't wait for the spring rush.

WIRE NETTING FOR POULTRY RUNS AND TRELLISES, ETC.

	12-in.	18-in.	24-in.	30-in.	36-in.	48-in.	60-in.	72-in.
1-inch mesh	1.75	2.60	3.45	4.30	5.10	6.80	8.40	10.00
2-inch mesh	\$.85	\$ 1.15	\$ 1.45	\$ 1.80	\$ 2.15	\$ 2.90	\$ 3.60	\$ 4.30

Short lengths, 2-inch mesh, 1c square foot; 1-inch mesh, 3c. Prices subject to change without notice.



INCUBATOR HYGROMETERS.

"Moisture Indicators."

Millions of chicks die in the shell every year, for the want of proper moisture conditions. The importance of a correct percentage of moisture during incubation has made the "Tyco's" Incubator Hygrometer as necessary as the "Tyco's" Incubator Thermometer. Neither takes the place of the other, but together they give the practical poultry raiser all the facts required for successfully regulating the heat and moisture of an incubator. Descriptive pamphlet on request.

Hygrometer, with full instructions, postpaid \$1.50; with Tyco's 75c Incubator Thermometer, only \$2.00.

LAMPS.

OAKS HYDRO SAFETY.—Made especially for incubators and brooders. They have a water jacket and are perfectly safe. You will be pleased with these.

NO. 1—7½ inches high; ½-inch wick.....\$1.00

NO. 2—8 inches high; 1-inch wick.....1.50

NO. 3—9 inches high; 1½-inch wick.....1.75

NEST EGGS.

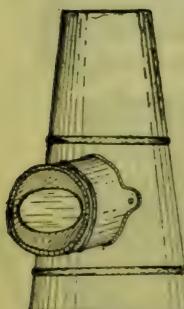
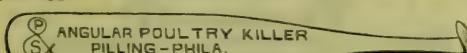
CHINA.—Opal. 8 for 10c, 12 for 30c; postpaid 50c

NEW MEDICATED.—Answers as a nest egg; also insecticide. Keeps lice out of the nests and off the hen. Non-breakable. Each egg wrapped with paper and full instructions.

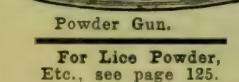
Each 10c; 8 for 25c; 12 for 75c; postpaid \$1.00

LIME NEST EGG.—Better than China eggs; non-breakable.

Each 5c; 8 for 10c; 12 for 30c; postage 3c extra per egg.



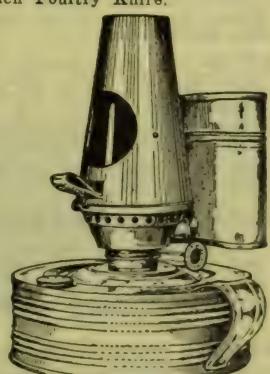
Egg Tester.



Powder Gun.
For Lice Powder,
Etc., see page 125.



Pilling French Poultry Knife.



Oakes Safety Lamp.

POULTRY BOOKS. We list on pg. 128 new, up-to-date and valuable books, that are worth reading.

COME TO US FOR ADVICE IN YOUR POULTRY WORK. WE HAVE EXPERTS WHO WILL GLADLY HELP YOU.

THERMOMETERS, for various uses.

We sell the "Tyco's," recognized as the most dependable. See illustration herewith showing general style of the following numbers:

For general use.

No. 23—Household; nickel or oxidized; tube in the center, readable from any angle; very desirable.

Postpaid \$2.25

No. 25—Household; metal on wood. Postpaid 90c

No. 26—Household; tin case, 8-inch. Postpaid 75c

No. 27—Household; plate glass back. Postpaid \$1.15

No. 28—Household; 8-inch; wood back. Postpaid 50c

GREEN HOUSE—Automatically records highest and lowest temperature. Postpaid \$2.00

HOT BED.—Round and pointed tube protected with metal and wood. For plunging in hot beds.

Postpaid \$2.00

For Incubators.

No. 22 "TYCO'S."—Very popular style; used in both Cyphers and Buckeye Incubators.

Postpaid 65c; wire hanger 10c extra

TYCO'S CERTIFIED.—Same style as No. 22. Scale is etched on glass tube as well as metal back. "Certified correct" and worth the price.

Postpaid \$1.50

No. 22½.—Square design, white on black, has folding legs so that it can be set up in egg tray.

Each, \$1.00

For Brooders.

No. 29.—New style and most convenient; temperature readable from above the hover. Used in both Cyphers and Buckeye Brooders.

Postpaid, each 60c; 2 for \$1.00

No. 21.—Low priced, for brooder.. Postpaid 40c.

EGG TESTERS (see cut).

X-RAY.—This egg tester is made to use on a lamp and will fit the ordinary No. 2 burner; very convenient and good.

Price 50c, postpaid

POWDER GUNS (see cut).

Very economical for using insect powder of any kind.

DEFENDER.—(See cut.) 10c; postpaid 15c

JUMBO.—Larger and better. 25c; postpaid 30c

KILLING KNIVES.

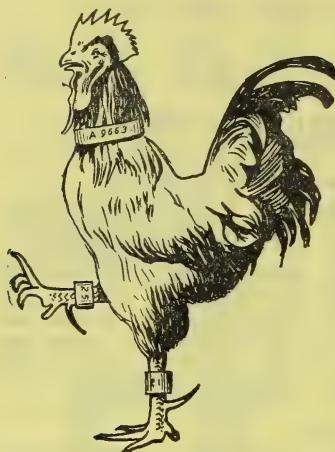
PILLINGS FRENCH.—Every poultry raiser should have one of our Killing Knives. They are made of a finely tempered instrument steel, with nickel handle; will last a life time. Sent postpaid on receipt of 50 cents. Don't wait! Send for one now!

PILLING ANGULAR KILLING KNIFE.—By simply turning the wrist the jugular vein and spinal cord are cut, thereby bleeding the fowl, allowing the feathers to be removed without using water.

50c postpaid



Poultry Supplies—Continued



Mark your poultry so that you know them.



Caponizing Tools.

CAPONIZING TOOLS.

Poultrymen can double their profits by caponizing. The operation is very simple, the instructions are so full and explicit that any man, woman or child, after a careful reading, will be able to perform the operation.

Philadelphia Set (see cut).—Complete with instructions.

Wooden case, \$2.75; in card-board box, \$2.50, postpaid.

LEG BANDS for Poultry and Pigeons

Keep a supply of Leg Bands on hand at all times; this is the only safe way to mark your different birds so you can tell certain stock or strains. Of course every bird must be marked with a band before it can be entered in a show.

DOUBLE CLINCH.—A desirable band, very safe; no exposed corners, ends or loops; has double fasteners (see cut). Made in five chicken and two pigeon sizes; state size wanted or tell us what variety and sex you want them for (see cut). Prices, postpaid, 12 for 15c, 25 for 30c, 50 for 50c, 100 for 85c.

LEADER (see cut).—Latest and best adjustable leg band out. Has neat, compact and smooth fastening, with no catching points; easily attached and is absolutely secure.

Prices, postpaid, large or small, 12 for 15c, 25 for 30c, 50 for 50c, 100 for 80c.

OPEN AND SEAMLESS BANDS.—For chicks or pigeons. (See cut.) Same price as above.

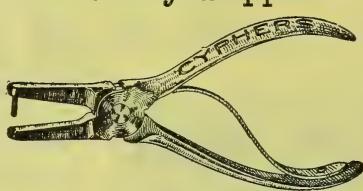
POULTRY MARKERS.

Very desirable for marking the web between the toes, especially of young chicks; you put leg bands on when they get older.

CYPHER'S PERFECT MARKER (see cut).—Large and strong, easy to use. Postpaid 50c

RELIABLE MARKER (see cut). Postpaid 25c

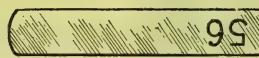
PETTEY'S PUNCH (see cut).—New style. Postpaid 25c



Cyphers Poultry Marker.



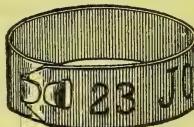
Leader Leg Band.



Open Leg Band.



Petty's Poultry Marker.



Double Clinch

RELIABLE POULTRY PUNCH ($\frac{1}{4}$ size).—Full instructions and markings with each punch. Prepaid 25c.

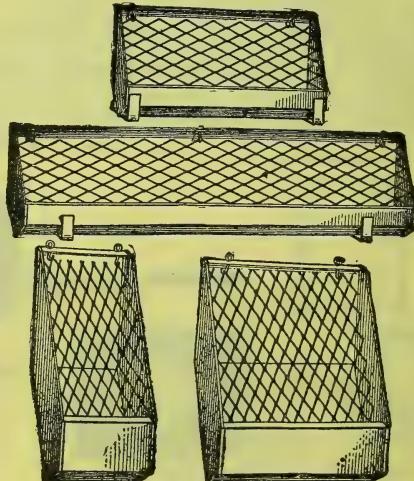


Latest Feeders and Fountains

Increase your profits by saving the chicks. Start now by ordering sanitary and up-to-date Fountains and Feeders. See below and next page.



Cyphers Fountains—See Next Page.



Boston Dry Food Hoppers.

During the day the front screen is dropped down against the feed, at night lifted up and hooked—rat proof. Thousands now in use. See next page.

Up-to-Date Drinking Fountains and Feeders—Continued

CYPHER'S SEPARABLE DRINKING FOUNTAINS.—Pressed out of heavy galvanized iron; will last for years. Easy to clean inside and out. (See cut, opposite page.) Prices, 1-quart size, 25c each; 2-quart size, 35c; large 3-quart size, 45c. Note.—5c less in lots of 3 or over.

CYPHER'S KEEP-CLEAN WALL FOUNTAINS.—Very popular for adult fowls; hang up on the wall out of litter and dirt; made of heavy galvanized iron. (See cut.) Price, $\frac{1}{2}$ -gal. 50c each; 1-gal. 60c; 2-gal. 85c

SANITARY STONE FOUNTAINS.—An old and popular style that keeps the water cool. Price, 1-quart 25c, 2-quart 35c, 4-quart 50c

THE "ALL-RITE."—(See cut.) This new fountain can be set down, but is best hung up out of the litter. It feeds water, mixed chick feed, etc. It is easy to fill; simply snap out the bottom part, fill the jar, snap the bottom part on again and invert; no need of removing the jar from the wire holder. Made to hold the old zinc-top Ball Mason pint, quart or two-quart jar. We do not include cans or jars with the "All-Rite."

Prices, each 20c; 3 for 50c; 12 for \$1.75; by mail, postpaid, each 8c extra

CYPHERS COMBINED FOOD AND WATER HOLDERS.

For Chickens and Ducks of All Ages.—They are especially recommended for use in feeding mashes of any kind; also steamed or dry alfalfa. This protected receptacle saves 15 to 25 per cent in food-stuff. The guard lifts out of the pan, making them easy to clean. There is nothing to get out of order. Made of heavy galvanized iron; safe, sanitary, saving and serviceable. Prices, each small, 40c; medium, 70c; large, 95c

Boston Dry Food Hoppers (See cut opposite page)

The use of these hoppers will positively save their original cost every week in the case of adult fowls and every month or less in the case of chicks. Besides this they will help greatly to keep your fowls and chicks in a healthy condition by insuring them clear food entirely free from filth of any kind. Every poultryman will appreciate this feature. Send for fully illustrated pamphlet.

PRICES AND SIZES.—(See cut, page 120.) In $\frac{1}{2}$ -doz. lots, 10c less.

Large dry feed, holds $\frac{1}{2}$ bushel each, each \$1.10.

Beef scrap, grit, etc., holds 1 peck each, each \$1.00.

Small chicken size, holds $\frac{1}{2}$ peck each, each \$1.10.

Long (29 in.) chicken size, holds 1 peck each, each \$1.60.

SANITARY SHELL AND GRIT BOX

Made of heavy galvanized iron; soon pays for itself in preventing waste. Self feeders for bone, beef scraps, grit, shells and charcoal. If these necessary foods are kept before your fowls they will eat just what their systems require for profitable results; in other words, properly balance their rations. (See cut.)

Price, 60c each; 3 for \$1.75

CYPHERS' DRY FOOD HOPPER

Made like above, but are larger, and only two compartments, one holding six and one three quarts. Thousands are in use for dry foods.

Price 75c each

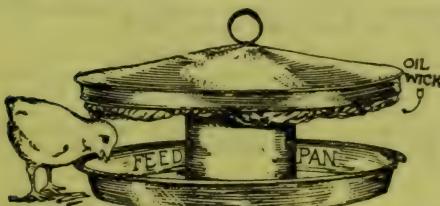
AUTOMATIC CHICK GREASER AND FEEDER.

(See illustration bottom of page)—every chick its own doctor. It is the large lice which collect on the heads of young chickens which cause them to droop and die; and formerly the only way to get rid of these lice was to catch each chick and rub grease on its head; but this slow and tedious process is not necessary since the invention of the Automatic Chick Greaser. The wick around the upper part of the greaser is saturated with Conkey's Head Lice Ointment or with a mixture of two-thirds lard and one-third kerosene (or black oil) and every chick which eats out of the pan will get its head thoroughly greased in a very few minutes. Can be moved from one pen to another.

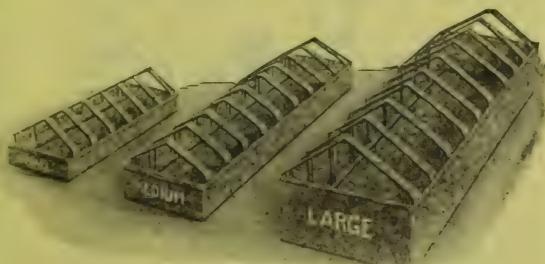
Price \$1.25 Money Savers—You Need Them.

Look over our list of Practical

Poultry Books, page

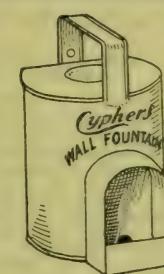


Automatic Chick Greaser, and Feeder.

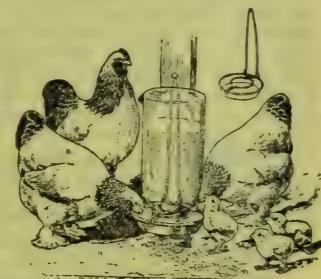


Cyphers Combined Food and Water Holders.

Equip your poultry houses and yards with these money-saving, sanitary utensils. Don't invite diseases and loss by using old pans, open dishes or wooden troughs.



Cyphers Wall Fountain.



"All-Rite" Fountain, or Dry Food Feeder.



"HIGHEST QUALITY" POULTRY FOODS

At special prices direct to Poultry Raisers: 5 bags assorted foods at 500-lb. prices, 10 bags at 1000-lb. prices.

"Talk" for Food

Poultry Foods and Feeding is a great study and much midnight oil and years of experimenting have been devoted to it.

A few manufacturers of Poultry Foods in United States have spent thousands of dollars in this study and have perfected and prepared properly balanced chick and poultry foods for specific purposes. AMONG THE FEW, and we might add the LARGEST AND MOST SUCCESSFUL, is the CYPHERS INCUBATOR COMPANY. THEY OPERATE THE LARGEST MILL IN THE WORLD DEVOTED EXCLUSIVELY TO POULTRY FOODS.

AND STILL in the face of these FACTS, and many others of great importance, some Feed or Supply House or "WOULD-BE" poultry expert will mix up a "SO-CALLED" chick or poultry food, advertise it and sell quantities of it. The poultry raiser buys it FIRST because it is cheaper, SECOND because they do not know they are paying their GOOD MONEY for a lot of SCREENINGS and WASTE. Some may say they get results from it; perhaps so, but they would get MUCH BETTER from a REAL, "ALL-FOOD" PROPERLY BALANCED RATION.

THE IMMENSE QUANTITY we handle enables us to sell our "HIGHEST QUALITY" FOODS AT VERY REASONABLE PRICES. Don't practice false economy by buying low-priced inferior stock.

"Highest Quality" Sterling Chick Feed.

Prepared especially for Baby Chicks, Turkeys, Pheasants, etc.

Put up for us under the "Pure Food Law" by one of the largest manufacturers of poultry foods in the United States, and is the "highest grade" Chick Food made; always clean and sweet.

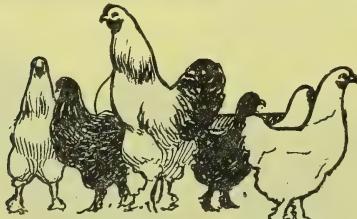
Last season was the second year we offered "Sterling" to our customers, and they were more than pleased. We have sold over 15 carloads, or 450,000 lbs., and have heard nothing but praises from every user.

If you have been buying some of the "so-called" chick foods sold in Portland and elsewhere, send to us for our "highest quality" Sterling Chick Food—a complete food (with the exception of greens or grass), for baby chicks from shell until eight or ten weeks old. This mixture embraces the best combination of seeds, grains, foods, etc., that can be compounded for the purpose required. It gives the chicks quick growth and keeps them in good health.

It should be fed dry and the chicks made to work for it. It is clean to handle, always ready, and is the cheapest food you can buy or prepare.

Price, 5 lbs. 25c; 10 lbs. 40c; 100 lbs. \$3.00; 500 lbs. @ \$2.70; 1000 lbs. @ \$2.60 per C.

We sell Thoroughbred Poultry



and Eggs. Read pg. 127 carefully.



Our "Trade Mark" of "Quality."

Routledge Seed & Floral Co.

Dear Sirs: Find enclosed \$13.75 for 500 lbs. Sterling Chick Food, "highest quality."

I bought your chick food last year and FOUND IT THE BEST. Will use no other.

J. C. PATTON.

R. S. & F. Co.'s "HIGHEST QUALITY" SCRATCH FOOD

A complete ration for large chicks or full grown poultry. It is a perfectly balanced feed, composed of a variety of clean grains, mixed with the proper amount of prepared beef, fresh granulated bone, charcoal, grit and shell. Will keep your poultry in perfect condition. Makes an excellent and profitable food. You can't mix it as cheaply as we sell it, if you mix it right.

Price, 5 lbs. 25c; 10 lbs. 35c; 50 lbs. \$1.35; 100 lbs. \$2.50; 500 lbs. @ \$2.35; 1000 lbs. @ \$2.25.

GRANULATED BONE—"SPECIAL"

The impression prevails in many quarters that bone must be fresh or green to be of value as a food. This is not the case. The fresh bone contains about 40 per cent water and 12 per cent grease; 52 per cent of matter which your fowls do not need. The granulated bone we offer is made from fresh, green bones, from which the moisture and grease have been taken, leaving the phosphates, lime and protein. Bone is especially valuable to poultry. Feed in a Sanitary Shell and Grit Box.

Price, 5 lbs., 20c; 10 lbs., 35c; 100 lbs., \$3.00; 500 lbs. at \$2.75; 1000 lbs. at \$2.60.

ORDINARY STOCK.—Bought locally. 100 lbs. \$2.50; 500 lbs. at \$2.35; 1000 lbs. at \$2.25

HIGH-GRADE MEAT MEAL

A highly concentrated food. It is cooked meat, dried and ground. Very rich in protein. It should be mixed with the soft food.

5 lbs., 25c; 10 lbs., 50c; 50 lbs., \$2.00; 100 lbs., \$3.50; 500 lbs. at \$3.40; 1000 lbs. at \$3.35 per 100

IMPORTANT NOTICE! Poultry raisers, combine your orders with your neighbor and order in 5, 10 or 20-sack lots and get wholesale prices. 5 bags assorted foods at 500-lb. prices, 10 bags at 1000-lb. prices. Quantity prices subject to radical market changes in grain market. Write at any time for latest prices, stating quantity wanted.

HIGH-GRADE BEEF SCRAPS

Beef scraps are rich in materials which make bone, muscle and lean meat. They insure health, thrift and vigor, and satisfy the natural craving of the bird's system for flesh-food in some form. No other meat-food is so highly concentrated and no substitute is so convenient for handling and storage. Contain 55 per cent protein. We guarantee our Beef Scraps to be pure and free from any adulteration. Beef Scraps can be fed dry or with cooked rations. Put in one section of your Sanitary Shell and Grit Box.

Price, 5 lbs. 25c; 10 lbs. 50c; 50 lbs. \$2.25; 100 lbs. \$4.00; 500 lbs. at \$8.75.

POULTRY PEPPER

A good tonic and invigorator. Ground.

Price, 1 lb. 25c; 5 lbs. \$1.00

POULTRY SHELLS, CRUSHED

These should be within reach of your hens at all times. Not straight Oyster Shells, but a combination of Oyster, Sea and Clam Shells that is excellent—gives as good results and is much cheaper. We buy in 40-ton lots, carefully screened and free from waste. Put in one section of your Sanitary Feeder.

Price, 5 lbs. 10c; 10 lbs. 20c; 100 lbs. 75c; 500 lbs. at 65c; 1000 lbs. at 60c per 100.

EASTERN OYSTER SHELL. 100 lbs. \$1.25

CHARCOAL

Our Granulated Charcoal is prepared especially for poultry; no dust; a good thing for bowel trouble, sour crop and indigestion; a health preserver. State size wanted—**A** for mash, **B** for chicks, **C** for large chicks or hens.

Price, 1 lb. 10c; 3 lbs. 25c; 10 lbs. 75c; 50 lbs. \$2.00; 100 lbs. \$8.75.

CLOVER OR ALFALFA MEAL

The best substitute for green food for Winter feeding; helps keep the egg basket full; mixed with the soft feed is good for large or small chicks; endorsed by leading experts.

Western Price, 1 lb. 10c; 10 lbs. 50c; 100 lbs. \$1.50.

We do NOT keep Cyphers in stock, but will order it if you'll pay the freight.

GRIT

Every poultry raiser should keep a supply of this grit in each pen. Made in three sizes, chick, pigeon or broiler and hen size. We always send hen size unless otherwise ordered.

Price, 5 lbs. 15c; 10 lbs. 20c; 100 lbs. \$1.00; 500 lbs. at 85c; 1000 lbs. at 75c.



Cyphers' Chick and Poultry Foods

This season we shall endeavor to keep in stock at all times Cypher's Standard Poultry Foods and will supply those who ask for it, as far as possible; BUT should we be out of Cypher's, INSTRUCT if we can send any other kind TO SAVE DELAY.

NOTE.—Let us know in advance what you want and we will order it in our next car of Cypher's Foods.



Cyphers' Booklet—Foods and Feeding—is full of valuable information. Tells What to feed, When and How and why "Cyphers'" is best. Free. 2c stamp for postage.

CYPHERS' CHICK FOOD

A Complete, Scientifically Compounded Food for Young Chicks. No Weed Seeds, By-Products or Grit. Is Composed Solely of Sound, Sweet Grain.

This chick food has been in successful use 12 years! Millions of pounds are sold every season. Each spring and summer a rapidly increasing number of experienced, successful poultry raisers use no other grain food for their small chicks. Year after year the same customers buy and use it because they get unequalled results and have found they can rely on its uniform quality. All chicks produced on the Cyphers Company \$50,000 poultry farm are fed this food and they grow them every year by the thousands.

CYPHERS CHICK FOOD—the genuine article—is put up in sealed bags to prevent substitution and to protect the interests of thousands of earnest men and women who year after year are raising chickens the "Cyphers Company way."

Prices, 5 lbs. 25c; 8½ lbs. 40c; 50 lbs. \$1.60; 100 lbs. \$3.00; 500 lbs. at \$2.75; 1000 lbs. at \$2.70 per 100.

CYPHERS' DEVELOPING FOOD

For Promoting the Growth of Young Stock. A Carefully Balanced Dry Grain Ration.

As its name implies, this is a special dry grain mixture intended for properly maturing chicks after they are ready to be weaned from Chick Food, and to carry them along to the age when it is desirable to place Scratching and Laying Mash before the pullets.

CYPHERS DEVELOPING FOOD is properly balanced to supply the materials required for the rapid growth of bone, muscle and feathers. It is the best food on the market for developing young stock for show purposes or the breeding pen, both in size and plumage, and also for hastening the growth of chickens that are being raised for market purposes.

Prices, 5 lbs. 25c; 10 lbs. 40c; 50 lbs. \$1.50; 100 lbs. \$2.85; 500 lbs. at \$2.70; 1000 lbs. at \$2.60.

CYPHERS' GROWING MASH

An Easily Assimilated Food for Hopper Feeding. Promotes Rapid Growth of Bone and Muscle.

We recommend that a hopper of Cyphers' Growing Mash be kept constantly before the young stock. They will eat only such quantities as they require, but will go to this food frequently and its ingredients are such that the birds will develop rapidly, at the same time continuing in perfect health. This food contains ingredients not found in cracked grain mixtures—and it is these extra ingredients that fill out the ration and produce the desired result in the production of bone and muscle.

It should be remembered that when the object is to induce the rapidly growing birds to consume the maximum amount of food, a variety must be furnished. We strongly recommend the use of Growing Mash in connection with Developing Food until the chicks are three months old, when the Developing Food should be replaced by Scratching Food.

Prices, 5 lbs. 25c; 10 lbs. 40c; 50 lbs. \$1.50; 100 lbs. \$2.85; 500 lbs. at \$2.70; 1000 lbs. at \$2.60.

CYPHERS' LAYING MASH

A Balanced Ration of Ground Grains and Blood Meal, Ready Mixed for Hopper Feeding—Promotes Health—Increases the Egg Yield.

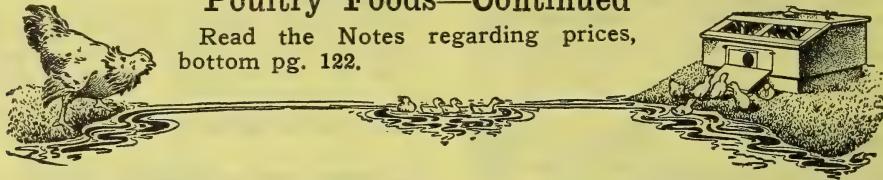
CYPHERS LAYING MASH is not in any sense a condiment or an egg stimulant. On the contrary, it is strictly A FOOD—a palatable, highly nutritious, balanced egg ration, ready mixed for the daily mash, and is manufactured by us to meet the demand of poultrymen, who as a result of unfavorable experiences with cheap mash foods manufactured from by-products and inferior or damaged grain have learned the importance of using only such poultry foods as are produced from perfectly sound grains.

Poultrymen who wish to obtain the greatest food value for their money will realize that it is to their advantage to buy of manufacturers who are specialists in the production of poultry foods and who positively guarantee their goods under seal.

Prices, 5 lbs. 25c; 10 lbs. 40c; 50 lbs. \$1.50; 100 lbs. \$2.75; 500 lbs. at \$2.65; 1000 lbs. at \$2.60.

Poultry Foods—Continued

Read the Notes regarding prices,
bottom pg. 122.



CYPHERS' FATTENING MASH

Specially Designed to Promote Rapid Formation of Flesh.

To secure the highest market price the fowl must be "finished"; it should have a liberal supply of soft, tender meat on its frame, and this can be obtained only by the finishing or fattening process, whether the fowl is intended for broiler, roaster or capon.

Cyphers Fattening Mash, when fed according to our directions, will produce results that cannot be obtained by any other method.

Prices, 5 lbs. 25c; 10 lbs. 40c; 50 lbs. \$1.50; 100 lbs. \$2.70; 500 lbs. at \$2.65; 1000 lbs. at \$2.60 per 100.

CYPHERS' PIGEON FOOD

In compounding a food for pigeons the proper selection of various grains is of great importance. The peas it contains should be of a certain age. The wheat must be red, never white. The proportions of millet, hemp-seed, kaffir corn and all other materials that enter into it must conform to the known needs of the birds and be absolutely sweet and free from must, otherwise there is trouble. It is impossible for any feeder to purchase in this market materials of this kind and quality and assemble them in the proper portions at as low a price as we offer Cyphers sealed-bag brand.

Price, 5 lbs. 25c; 10 lbs. 40c; 50 lbs. \$1.75; 100 lbs. \$3.25; 500 lbs. at \$3.15; 1000 lbs. at \$3.10.

Prepared Stock Foods in Bulk

DIGESTER TANKAGE—Beaver Brand

Prepared only from materials which have been U. S. inspected and passed. They contain Pure Animal Matter in its most available and digestible form. Guaranteed Analysis: Protein, 60 per cent; phosphate, 6 per cent; fat, 8 per cent. This feed is made exclusively for the feeding of hogs, which has the endorsement of all the leading Agricultural Experiment Stations and is used by the best breeders and feeders of every state.

CYPHERS' FERTILE EGG MASH

A Properly Balanced, Bulky Mash to Secure the Maximum Number of Fertile Eggs.

This food has for its special object the production of well-fertilized eggs in large numbers—eggs that possess in abundance, also in proper proportions, the rich materials needed to develop and feed the chick embryo so that the chick at hatching time will be large, vigorous and in perfect health.

Fanciers and market poultrymen whose aim it is to secure the best hatching results will find that this mash will do the work—that surprisingly satisfactory returns can be secured by its use.

May be fed dry, in hoppers, or can be used as a wet mash, feeding it in this form once a day.

Prices, 5 lbs. 25c; 10 lbs. 40c; 50 lbs. \$1.50; 100 lbs. \$2.75; 500 lbs. at \$2.65; 1000 lbs. at \$2.60.

CYPHERS' SALT CAT (for Pigeons)

This preparation possesses aromatic and tonic properties of such roots, herbs and seeds as gentian, anise, caraway, cummin and coriander; also bone, crushed oyster shell, granulated charcoal, crushed limestone, rock salt, sulphate of iron, etc. It aids digestion, invigorates the system and promotes good health. It is put up in brick form, which keeps the birds busy picking at it, and prevents waste. Crumble the Salt Cat for young birds.

Prices: Per brick, 30c. If wanted by mail, add 15c per brick for postage.

Stock Foods in Bulk

In a recent test at Oregon Experiment Station, the profit in feeding "Beaver Brand" Digester Tankage in connection with grain, against straight grain and alfalfa, was 37½ per cent. Write for pamphlets giving full information.

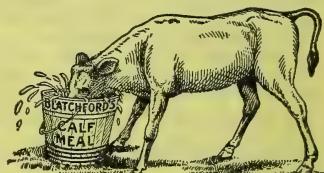
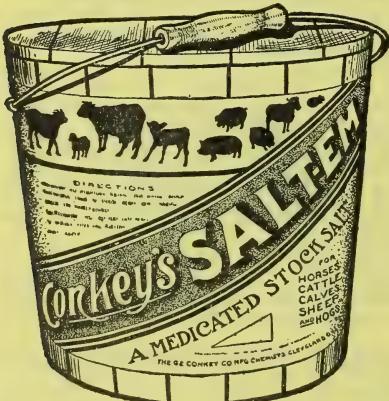
To be fed either wet or dry, mixed with ordinary ground feed, or can be prepared as a mash with slop at the rate of $\frac{1}{4}$ to 1 pound per day, according to size and age of pigs.

Prices.—Original sacks only, 50 lbs. \$1.50; 100 lbs. \$2.50; 500 lbs. at \$2.35; 1000 lbs. at \$2.30 per 100

BLATCHFORD'S CALF MEAL

A perfect substitute for milk. As rich as whole milk; one-half as expensive. Sell your cream and use Blatchford's Calf Meal. A pound makes one gallon of perfect milk substitute equal to pure milk for raising calves. Prevents scouring and insures early maturity. Free 16-page booklet "tells all." If interested, write; a postal will do.

Prices: 25 lbs., \$1.25; 50 lbs., \$2.25; 100 lbs., \$4.00



Tastes "Like More."

SALT-EM—Conkey's Medicated Salt

For Horses, Cows, Calves, Feeding Cattle, Sheep and Hogs. All farm or city kept stock is under unnatural conditions. In addition they are producing far more than intended by Nature. Supply the mild tonic elements they find by instinct in a state of nature.

"SALT-EM" will give the needed tone to the vital organs, and enable your high producing stock to meet the strain of unnatural feeding conditions. It will rid your stock of worms, increase appetite, improve digestion, save waste of feed, tone up liver and kidneys, increase circulation, clean the blood, keep the system open, make thrifty gains from feed, and ward off disease. Leave it before your animals all the time. Use no other salt. Send for free Book on Salt-Em. Tells how much Salt-Em stock will eat, and why it means \$ to you.

Prices: 200-lb. bbl., \$11.00; 100-lb. keg, \$6.00; 40-lb. pail, \$2.75; 20-lb. pail, \$1.50; 10-lb. pail, 90c.

Make a 30 days' test of "Saltem." If it doesn't satisfy you, we guarantee your money back.

CONKEY'S POULTRY, DOG AND STOCK REMEDIES



We handle a complete line of these celebrated remedies which have built their reputation upon the scientific basis of one remedy for each disease.

A "Cure All" is not made by the Conkey Company. Each remedy is intended to serve one special purpose and serve it well. These goods are absolutely guaranteed and we offer them to you on this basis: If they fail to satisfy you in any particular, your money will be refunded to you cheerfully.

Valuable Book Free

Limited space will not permit descriptions of each of these remarkable remedies, but we will gladly mail Conkey's 80-page descriptive book (price 50c) free to you if interested.



CONKEY'S POULTRY REMEDIES—

- Roup Remedy.**—This is the best known remedy for roup. Price, 25c, 50c and \$1.00, postpaid
- Lice Powder.**—The most effective lice powder for body lice ever made. It kills them on the spot. Liberal samples for 4¢ in stamps. Prices: 5-oz. pkg. 10c or 15c, postpaid; 15-oz. 25c or 40c, postpaid; 48-oz. 50c; express extra.
- Lice Liquid.**—A powerful liquid that will destroy the thousands of red mites that live in the cracks and crevices of the house and nests in the day and swarm the fowls' bodies at night. You can't reach them with a powder. 1 qt. 35c; 2 qts. 60c; 1 gal. \$1.00; express extra.
- Head Lice Ointment.**—Save your little chicks from the ravages of the deadly head lice. Absolutely harmless to the little chicks. Easy to apply. 10c and 25c, postpaid
- Conkey's Laying Tonic.**—This actually makes hens lay without harming them. There is not one particle of filler in this tonic. It means vigor in your fowls, which is the greatest egg-producer known. 1½ lbs. 25c; 3¼ lbs. 50c; 7 lbs. \$1.00; 25 lbs., pail \$8.00; expressage extra.
- White Diarrhoea Remedy.** 50c postpaid
- Bronchitis Remedy.** 50c postpaid
- Blackhead Remedy.** 50c postpaid
- Cholera Remedy.** 25c and 50c postpaid
- Gape Remedy.** 50c, or 65c postpaid
- Chicken Pox Remedy.** 50c, or 60c postpaid
- Limber Neck Remedy.** 50c, or 60c postpaid
- Scaly Leg Remedy.** 50c, or 60c postpaid
- Rheumatic Remedy.** 50c, or 60c postpaid
- Poultry Laxative.** 25c, or 30c postpaid
- Poultry Tonic.** 25c, or 30c postpaid
- Poultry Worm Remedy.** 50c postpaid
- Poultry Flea Salve (stick-tights).** 25c, or 30c postpaid
- Sulphur Candles (fumigating).** 10c, or 15c postpaid

Conkey's \$1.00 224-pg. Stock Book sent for 10c for postage.



CONKEY'S STOCK REMEDIES—

- Stock Tonic.**—For horses, cows, sheep and hogs. 25c, 50c and \$1.00 pkgs.; pails \$2.00 and \$3.50
- Worm Remedy.** 50c postpaid
- Horse Tonic.**—For worn out horses. \$1.00
- Colic Remedy.**—Just a few drops on the tongue; effective. 50c; postpaid 55c
- Eye Remedy.** 50c
- Distemper and Cough Remedy.** \$1.00 postpaid
- Healing Powder.**—For gall sores or wounds. 50c postpaid (sample free)
- Gall Salve.** 25c and 50c
- Pain Lotion.**—For swellings, etc. 50c
- Hoof Remedy.**—The very best. Pint 50c; quart 75c; ½-gallon \$1.25; gallon \$2.00
- Absorbent.**—For spavins, etc. \$1.00
- Bag Ointment.** 25c and 50c
- Nox-i-cide.**—Best disinfectant. Pint 35c; quart 60c; ½-gallon 90c; gallon \$1.50
- Dip and Disinfectant.**—Best sheep dip made. Qts. 35c; 2 qt. 60c; ½ gal. 75c; gal. \$1; 5 gal. \$4

CONKEY'S DOG REMEDIES—

Your dog is your best friend and is entitled to kind treatment and good care. For the ailments to which they are subject you will find nothing better than Conkey's Dog Remedies.

- Mange Remedy.**—An absolute cure. Price 50c
- Distemper Remedy.**—This is an excellent remedy for this terrible disease. Price 50c; 60c postpaid
- Dog Tonic.** Price 50c, or 65c, express paid
- Worm Drops.**—Absolutely safe. Price 50c, or 65c, express paid
- Pi-no** is a valuable disinfectant and germicide for the dog owner. Very agreeable pine odor. Prices: 1 pt. 50c; 1 qt. 75c; 2 qts. \$1.00; gal. \$1.50.

CONKEY'S SPECIALTIES—

- Healing Salve.** 25c and 50c postpaid
- Ant Chaser.**—Non-poisonous and harmless to children and animals. Price 25c a box
- Insect Killer.**—Will destroy insects on bushes, plants and shrubs. Price 25c
- Bug & Moth Killer.**—Will not stain anything. A sure and perfect insecticide. Price: 7 oz. 25c; 1 pt. 50c; 1 qt. 75c; 2 qt. \$1.25.
- Pino.**—This is a perfect disinfectant for household use without the disagreeable odor. Price: 7 oz. 25c; 1 pt. 50c; qt. 75c; gal. \$1.50

CONKEY'S FLY KNOCKER

Means peace to your stock and money in your pocket. It kills every fly it hits and drives the others away. The animals cannot fight flies and do their best for you. It does not harm the coat. It does not taint the milk. It allows the animal to give you the best from its food and rest. The horseman, the dairyman, the horseshoer, and all who have to deal with animals, claim that they are saving money by its use. Ask for special folder on this product; it will interest you. Prices, 1 qt. 25c; 2 qts. 60c; 1 gal. \$1.00, express extra.

GUARANTEED TO DO THE WORK CLAIMED AND SATISFY YOU OR YOUR MONEY BACK — EVERY CENT OF IT.

GOLD FISH, GLOBES, FOOD, ETC.

An aquarium is a beautiful ornament. It suits everywhere, parlor, library, dining and sitting room, and may indeed be introduced in the apartments of the sick. The bright, active Gold Fish are very interesting, a perpetual source of amusement for both old and young folks. Children are always delighted with them. The care of Gold Fish is very simple. A little prepared Fish Food and change of water is all that is necessary.

The fish we offer are Oregon raised, acclimated and very hardy.

PRICES—Fancy Fan Tail, 25c to \$1.00 each; specimens, \$1.50 to \$2.50 each.

COMMON GOLD FISH.—Small 15c each; medium 25c; large 50 to 75c; extra large—4 to 5 inches \$1.00 each.

Outside shipments by express only and 10c extra is charged for a shipping bucket which will hold 1 to 6 fish.

FISH FOOD, best imported wafer, large box, enough food for four fish for six months, 25c postpaid. Directions for feeding and care on each box.

FISH GLOBES.—Hanging, with brass chain, each quart 50c; $\frac{1}{2}$ -gal. 60c; $\frac{3}{4}$ -gal. 75c; 1-gal. \$1.00; $1\frac{1}{2}$ -gal. \$1.25; 2-gal. \$1.50; without chains 25c less. Standard (like illustration), each, $\frac{1}{2}$ -gal. \$1.00; $\frac{3}{4}$ -gal. \$1.25; 1-gal. \$1.50; $1\frac{1}{2}$ -gal. \$1.75; 2-gal. \$2.00; $2\frac{1}{2}$ -gal. \$2.50; 3-gal. \$3.00.



CANARY BIRDS.

Note.—Do not compare our prices with the irresponsible bird fakers, who sell for little prices and supply inferior stock and females for males, etc.

AMERICAN BRED.—Healthy, hardy, well-shaped birds, fine singers, all colors. Males, \$2.50 to \$3.00 each. Females, 75c to \$1.00; deep yellow, \$2.00.

HARTZ MOUNTAIN ROLLERS (Imported).—From the Hartz Mountains, Germany. Beautiful and incessant singers, hardy and thrive anywhere. Their cheery song is like sunshine to the soul; their bright plumage, active ways and cheerful dispositions make them the favorites and most popular. Males, \$5.00 each. Females, \$2.00 each.

ST. ANDREASBERG.—Imported.—These are world-renowned and the sweetest singers. They are given three to six months' musical training to develop the long trills, flute notes, etc. Males, \$8.00 to \$10.00 each. Females, \$3.00 each.

Note.—Please remember, we offer only high-bred, guaranteed stock, in perfect condition.

BIRD CAGES, ETC.

BRASS, with guard (which keeps the birds from throwing seeds and dirt out of the cages), $9\frac{1}{2} \times 6\frac{1}{4}$ inches (floor), \$2.25; $10\frac{1}{2} \times 7\frac{1}{4}$ inches, \$3.00; $10\frac{1}{2} \times 9\frac{1}{4}$ inches, \$3.50. Without guard, \$1.75; \$2.00 and \$2.25, respectively.

BRASS, Fancy Mission and Globe shapes, \$4.50 to \$6.50 each.

ENAMELED, with brass guards, low-priced, but good, \$2.00 to \$2.75 each. Without guards, \$1.00 to \$2.00 each.

EXTRAS.—CUPS, 10c each; SPRINGS, 10c each; HOOKS, 25c to 40c each; PERCHES, 5c each; BATHING DISHES, 10c to 15c each.



Cage, With Guard.

BIRD SEEDS AND REMEDIES.

We offer only the "Highest Quality" recleaned true, pure seeds. They cost more, of course, but if you expect your birds to do well, and keep in perfect condition, feed our bird foods.

German Bird Seed, mixed, for imported birds	15c lb., postpaid 25c	Bird Manna, Conditioner.	15c pkg., postpaid 20c
Ordinary Mixed Bird Seed.	10c lb., postpaid 20c	Geisler's General Tonic.	25c bot., postpaid 35c
Pure Canary Seed.	10c lb., postpaid 20c	Geisler's Canary Health Food.	15c pkg., postpaid 25c
Sweet German Bird Rape.	15c lb., postpaid 25c	Geisler's Song and Moulting Food.	15c pkg., postpaid, 25c
Recleaned Hemp.	10c lb., postpaid 20c	Geisler's Bird Biscuit—very valuable food.	10c, postpaid 20c
Silver Washed Bird Sand	10c lb., postpaid 25c	Geisler's Medicated Biscuit, for sickly birds.	20c, postpaid 25c
Cuttle Bone.	2 for 5c	Geisler's Song Restorer.	25c bot., postpaid 35c
Crystal Grit—very fine.	10c lb., postpaid 25c	Geisler's Digestive Trouble.	25c bot., postpaid 35c
Geisler's Mixed Parrot Seed	20c lb., postpaid 30c	Geisler's Cold Remedy.	25c bot., postpaid 35c
Mixed Parrot Seed (2 lbs. 25c)	15c lb., postpaid 25c	Mite Powder.	10c pkg., postpaid 15c
Sunflower Seeds.	15c lb., postpaid 25c	Geisler's Mite Exterminator—(Liquid). Use in bath.	10c bottle
Corn for Parrots.	10c lb., postpaid 25c		
Gravel for Parrots.	10c lb., postpaid 25c		

Special prices to breeders of Birds who buy Seeds and Supplies in quantity. Write.

SCOTCH COLLIES—PURE-BRED, PEDIGREAED



Above is from a photo. A healthy, bright lot just weaned and ready for new homes. Don't you want one?

The Scotch Collie makes one of the best farm and home dogs, as they possess great intelligence, are easily taught, are quiet, tend to their own business and are faithful watch dogs. They are also handsome in appearance and make the most fashionable canine companions.

We can supply sable and white or black, tan and white. The latter is always preferred by stockmen.

Our puppies are from the best imported and American bred stock, and farm-raised, hardy and healthy.

We believe it is best for every one to buy a puppy. You can bring them up to suit your own ideas and ways. They are more faithful and generally give better satisfaction. When ordering, state for what purpose you wish the puppy and preference of color, and we are sure our selection will please you.

Marshfield, Ore., Jan. 1, 1912.

Gentlemen: I wish to acknowledge the receipt of my canary and say I am highly pleased with it.

Yours very truly,
MRS. C. A. HOWARD.

Bay City, Ore., Feb. 2, 1912.

Dear Sirs: I received bird O. K. and am well-pleased with it. I never heard a nicer singer.

Yours truly,
MRS. IDA NELSON.

PRICE OF THOROUGHBRED PUPPIES TWO TO THREE MONTHS OLD.

To bring the price within the reach of everybody, we make two or three selections in each litter, according to standard of points, color, markings, etc. None but choice pups shipped. Our prices are reasonable for such high breeding.

DOG PUPS, \$12.50 to \$15.00; extra choice show pups, \$20.00 to \$25.00.

MATED PAIRS for breeding, \$20.00 to \$30.00; Bitch Pups, \$10.00 to \$15.00.

SPAYED BITCH PUPS, \$10.00 to \$12.50. Many people prefer these to a dog, for they are always at home and ready for duty.

We guarantee safe delivery any distance. Advice of shipping is sent by mail; also full pedigree of pups on Kennel Club blanks for registration.

Sauvie's Island, Ore., Dec. 14.

Routledge Seed & Floral Co.

Gentlemen: The cockerels arrived safely yesterday morning. They are certainly fine birds. I am pleased with my flock and I wish to thank you for your part in their purchase.

Sincerely yours,
ALMA TAYLOR.

THOROUGHBRED POULTRY, AND EGGS

ALL EGGS PACKED IN PATENT EGG CARRIERS THAT INSURE SAFE DELIVERY

Raise thoroughbreds; it costs no more (except to start), and you can always find a market for your surplus at fancy prices. Anyway, they are more satisfactory and much more profitable than "scrubs."

Try them and you'll never go back to common stock.

We are in a position to supply you with most any breed of poultry or eggs. We know good stock and those who keep it, and can probably save you money. Write for prices in quantity or for stock not listed below. Exhibition birds come higher. Write.

NOTE.—Don't expect eggs or stock by return express or freight, for it takes several days, sometimes to get them in from the farm. We guarantee safe delivery of eggs or birds to any express office.

Prices of Stock and Eggs

White, Buff or Brown Leghorns, White or Black Minorcas

Eggs \$2.00 to \$2.50 per setting. Males, \$3.00 to \$5.00; females, \$2.00 to \$2.50 each.

White Buff or Barred Plymouth Rocks, White or Silver Laced Wyandotte, Rhode Island Reds, Buff Orpingtons, or Pekin Ducks

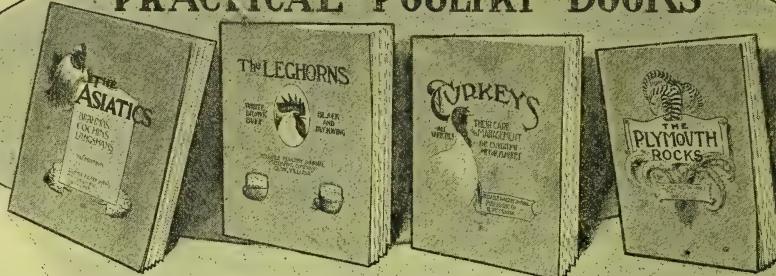
Eggs \$2.00 to \$3.00 per setting. Males, \$3.00 to \$7.00; females, \$2.00 to \$3.00 each.

NOTE.—Eggs or Stock from Registered Exhibition Birds Matter for Correspondence—Write.

We'll send you any priced stock you want. Remember, Quality makes the price. Breeders in the vicinity of Portland are requested to list their surplus birds and eggs with us.



PRACTICAL POULTRY BOOKS



American Standard of Perfection.—1912 color-plate edition, profusely illustrated. The only authorized guide for producing standard-bred or exhibition fowls. Copyrighted by the American Poultry Association. It is the book that poultry judges use at the poultry shows and that expert poultry raisers use in selecting and mating their breeding stock. It contains names and descriptions of every standard variety of chickens, turkeys, ducks and geese. 320 pages, 160 illustrations; durable cloth binding. Price, postpaid, \$1.50 per copy.

R. P. J. UP-TO-DATE POULTRY BOOKS.

Thousands of these valuable books have been sold; the late editions have been carefully revised, enlarged and brought up-to-date in both reading matter and illustrations.

	Price Postpaid		Price Postpaid
Artificial Incubating and Brooding.—96 pages...	\$0.50	Orpingtons.—New and up to date.....	.75
Asiatics.—100 pages, 9x12, illustrated.....	.50	Plymouth Rocks.—160 pages, 9x12, illustrated.....	1.00
Bantam Fowls.—72 pages, 9x12, illustrated....	.50	Poultry Houses and Fixtures.—96 pp. 9x12, ill. ....	.50
Ducks and Geese.—80 pages, 9x12, illustrated..	.75	Rhode Island Reds.—New and up to date.....	.75
Egg Record and Account Book.—82 pages, 5x10 ..	.25	Successful Poultry Keeping.—176 pp., 9x12, ill.	1.00
Eggs and Egg Farms.—96 pages, 9x12, illus....	.50	Turkeys.—96 pages, 9x12, illustrated.....	.75
Leghorns.—New, 144 pages, 9x12, illustrated..	1.00	Wyandottes.—160 pages, 9x12, ill.ustrated.....	1.00

CYPHERS POULTRY BOOKS.

The Library of Practical Poultry Books published by this company is acknowledged to be the only series devoted exclusively to the business of poultry culture for market purposes. It is entitled "The Cyphers Series on Practical Poultry Keeping," and the books forming the series are strongly recommended by all who have purchased them.

Book No. 1.—Profitable Poultry Keeping in all Branches. Fully illustrated, 128 pages, size 7 $\frac{3}{4}$ x 10 $\frac{1}{2}$ inches; durable, attractive, linen finish cover, printed in two colors.	Price, postpaid to any address, 50c	attractive, linen finish cover.	Price, postpaid to any address, 50c
Book No. 2.—Profitable Care and Management of Poultry. Fully illustrated, 128 pages, size 7 $\frac{3}{4}$ x 10 $\frac{1}{2}$ inches; durable, attractive, linen finish cover, printed in two colors.	Price, postpaid to any address, 50c	Book No. 5.—Profitable Market Poultry. Fully illustrated, 128 pages, size 7 $\frac{3}{4}$ x 10 $\frac{1}{2}$ inches; durable, attractive, linen finish cover, printed in two colors.	Price, postpaid to any address, 50c
Book No. 3.—Profitable Poultry Houses and Appliances. Fully illustrated, 128 pages, size 7 $\frac{3}{4}$ x 10 $\frac{1}{2}$ inches; durable, attractive, linen finish cover, printed in two colors.	Price, postpaid to any address, 50c	Book No. 6.—Capons for Profit. Fully illustrated, 64 pages, size 7 $\frac{3}{4}$ x 10 $\frac{1}{2}$ inches; durable, attractive, linen finish cover, printed in two colors.	Price, postpaid to any address, 50c
Book No. 4.—Profitable Egg Farming. Fully illustrated, 128 pages, size 7 $\frac{3}{4}$ x 10 $\frac{1}{2}$ inches; durable,	Price, postpaid to any address, 50c	Book No. 7.—Poultry Plant Construction. Fully illustrated, size 12 $\frac{1}{4}$ x 9 $\frac{3}{4}$ inches.	Price, postpaid to any address, \$1.00

Every person taking up the business of poultry keeping for profit should become possessed of one or more of these books, for the simple reason that one can do better with them than without them.

PIGEONS, PETS, ETC.

	Price Postpaid		Price Postpaid
Squabs for Profit (Rice & Cox), 150 pp.....	\$0.55	Canary Birds.—110 pages (paper).....	.55
Diseases of Pigeons (Summers) .....	.55	Pheasant Farming (Jesse Simpson).....	.25
Pigeon Queries.—46 pages, 5x7 $\frac{1}{2}$ inches.....	.25	Belgian Hare Guide (Hewes).....	.25

MISCELLANEOUS BOOKS.

Asparagus.—(Hexamer.) 174 pages.....	.60	Money in the Garden (P. T. Quinn).—268 pages	1.10
Blackberry and Raspberry Culture (Littooy)....	.25	Mushrooms.—How to Grow Them, 170 pages,	5x7
Celery Culture.—(Beattie.) 150 pages.....	.60	Our Farm of Four Acres.—126 pages.....	1.10
Draining for Profit and Health.—152 pages, 5x7.	\$1.10	Practical Fruit Grower (Maynard).—128 pages.....	1.60
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Keeping One Cow.—136 pages, 5x7.....	1.10	Tomato Culture.—Western Littooy35
Landscape Gardening.—(Waugh) 152 pages.....	.60		

The above Books are all up-to-date and will make you \$ if you read and study them.

READY AND EASY TO USE

NO MIXING, NO WASTE, CHEAP, NEVER LOSES STRENGTH.

GUARANTEED

TO DO THE WORK OR YOUR MONEY REFUNDED.

Manufactured by

KNOX MANUFACTURING COMPANY - Pasadena, Cal.

GOPHERGO

(MACHINE POISONED RAISINS AND GRAIN)



SURE DEATH

TO

**GOPHERS
SQUIRRELS
PRAIRIE DOGS
POCKET GOPHERS
RATS AND MICE
ALL RODENTS**

For Sale by

Routledge Seed & Floral Co.

Portland, Ore.

WE HAVE MADE AFFIDAVIT THAT THESE LETTERS ARE GENUINE.

U. S. Agricultural Experiment Station,
R. W. Thatcher, Director

Pullman, Washington, Oct. 10, 1910.

Knox Manufacturing Co., Pasadena, Cal.

Gentlemen:—We gave the Gophergo you sent us a good fair trial and are convinced that it is a splendid material for clearing our lands of the gopher or sage-rat as it is frequently called here. They seem particularly fond of your food and it had the desired effect in exterminating them. We are planning on trying it out under various conditions another year and hope then to completely determine its value for various rodents.

Yours truly,

W. S. Thornbeer.

Oklahoma Agricultural Experiment Station,
B. S. Pittuck, Director.

Stillwater, Oklahoma, Nov. 7, 1910.

Knox Manufacturing Co., Pasadena, Calif.

Gentlemen:—So far as we are able to experiment with the small quantity of Gophergo you sent us, we found that it did very good work. We found it very good for mice in the laboratory. We also tried it for killing various subterranean rodents, and in each case it was found to be very effective. This is certainly a very good article and there is no reason why it should not be introduced here to a very profitable extent.

Very truly yours,

C. E. Sanborn, Entomologist.

Marysville, Calif.

We have been experimenting with your Gophergo for the last few months, and have come to the conclusion that it is very effective in exterminating the gophers from our city levee system, in fact the best we have ever used. Yours respectfully,

Marysville Levee Commission,

Per W. T. Ellis, Jr., President.

Portland, Oregon, April 19, 1911.

Knox Manufacturing Co., Pasadena, Calif.

Gentlemen:—Have just received letter from one of our customers today, which we think would interest you. It reads as follows:

"Yours of April 8th requesting my opinion of Gophergo as a squirrel poison will gladly say—

"That Mr. Peaslee sent me a 25c can which I placed in Grey Squirrels' dens on March 20th and five days later I picked up eleven Grey Squirrels and the stench was so strong at the entrance of the dens it gave evidence of many more dead squirrels under the surface.

"I am putting out poison today on a larger scale and will inform you of the results.

"The squirrels will think a plague has struck them in this section of the country.

Yours truly,

Henry W. Long,
"Bridal Veil, Ore."

The Gophergo is proving a good seller with us and we will give you another order soon.

ROUTLEDGE SEED & FLORAL CO.,
R. R. Routledge, Pcs.

Hanford Kings Co., Cal.

I purchased a can of your Gophergo two weeks ago and used it according to directions. Yesterday I went over the land where I had put the poison, and was pleased to find not a fresh mound. I am going to keep a can and have it handy. From an old rancher.

Yours respectfully,

C. F. Fuller, R. F. D., Box 27

IF YOU DON'T NEED GOPHERGO NOW, YOU WILL NEED IT. KEEP

THEY ARE FROM PEOPLE WHO HAVE USED GOPHERGO. READ THEM.

Spokane, Wash., June 15th, 1911.

Knox Manufacturing Co., Pasadena, Cal.

Gentlemen:— we recently received the following letter:

"Potlatch, Idaho, June 5, 1911.

"Spokane Seed Co.

Gentlemen:—Please enter our order for two more buckets of Gophergo. The poisoned raisins are a sure cure for the ground squirrels. Even with the grain and good roots, growing rank, the squirrels will eat the raisins.

"Potlatch Lumber Co., by A. W. Laird."

Skookum Orchards.

Underwood, Washington, May 10, 1910.

Last spring my brother sent me by mail six cans of your Gophergo, which I used with splendid results. Kindly send me by mail at once, three packages containing three cans to the package, as I have spoken of it so highly to several of my neighbors they wish to try it. Could I not handle it here for your house, and, if so, send me any advertising matter you have.

Send me bills covering goods and postage.

Yours truly, H. W. Hamlin.

Hotchkiss, Colorado.

Received the sample can of Gophergo which we used on the prarie dogs and found it O. K., best thing we ever used. Please send us 50 cans at once. The dogs have been the greatest pest of the people here for years, but they have never found anything that would really give satisfaction in getting rid of them. They did more damage this year than the drought.

Yours truly,
Hotchkiss Fruit Company.

Santa Paula, May 24th, 1910.

I wish to say that your Gophergo is the best poison I have ever seen for gophers. I have a ten acre field of alfalfa in the midst of a large grain district where the gophers breed, but by using your Gophergo I have been able to keep my alfalfa almost entirely free from the destructive pests. I also used it this year in the grain fields, and one application nearly wiped out all trace of them, even where they were thick.

I take great pleasure in telling others of it. Wishing you success, I am,

Yours truly, A. L. Whiteside.

(Mr. Whiteside has used Gophergo by the barrel).

Rialto, Cal., June 17th, 1912.

Knox Manufacturing Co., Pasadena, Cal.

Gentlemen:—Relying to yours of June 10th as to information on the results we are getting from the use of Gophergo for the killing of gophers, squirrels, etc., would say that we think from the fact that we are using it exclusively for the extermination of these pests on some two thousand acres of orchard, is the best testimonial that we can give you of its effectiveness.

Yours very truly,
FONTANA DEVELOPMENT CO.,

A. B. Miller, Mgr.

State of California, County of Los Angeles } ss.

Jno. C. Dare, being first duly sworn deposes and says: that the foregoing testimonials are true and genuine.

KNOX MANUFACTURING COMPANY,

Per Jno. C. Dare, President.
Subscribed and sworn to before me this

6th day of September, 1912.

B. C. Strang
Notary Public in and for the County of Los Angeles, State of California.

THIS HANDY AND ASK YOUR DEALER FOR IT. HE CAN EASILY GET IT.

GOPHERGO

(Machine Poisoned Raisins and Grain)

Gophergo is a combination of raisins and grain, poisoned and packed by machinery. We use nothing but strychnine of the purest grade which never loses its strength, has no odor or fumes and is harmless to handle. We make no secret of the materials we use as the success of our product is entirely in the process.

Raisins have been used for years and are well known as an excellent bait, particularly for gophers. They have however always been poisoned by hand and therefore not thoroughly poisoned, and the necessary handling is also a disadvantage, as all burrowing animals have a highly developed sense of smell.

We are the pioneers in placing on the market a machine poisoned raisin, thoroughly poisoned, all ready for use and much cheaper and more effective than poisoning by the old method of cutting them open and inserting the poison.

Gophergo is sold by drug, seed, hardware and general stores in every state west of the Mississippi River and Canada, in

.25c cans, by mail .35c

.50c " " ".75c

\$1.00 " " express charges collect

\$3.00 bkts. " " " "

Ask your dealer for it. If he does not have it he can readily get it for you and is authorized to return your money if it does not do the work.

DIRECTIONS

Pocket Gophers

Open the run-way under a fresh mound. To be sure that it is open, insert a wire or small tree branch about two feet long into it. Then pour into the opening a small quantity of the mixture containing several of the raisins and see that it goes well back into the runway, or sharpen one end of the branch or wire and force it through one or two of the raisins and insert them well back into the opening. Do not close the opening. Do not scatter the bait about on the surface. When placed under the ground, it is harmless to other animals, birds, etc.

Squirrels Prairie Dogs and Gophers

Use about a teaspoonful at each burrow and scatter along the trails and clean hard places used by the animals. Do not place on dusty mounds, and do not use in wet or windy weather.

Rats and Mice

Put the bait in places where they frequently and, if possible, cover or protect it.

REFERENCE TABLES

Quantity of Seed Required to Produce a Given Number of Plants and Sow an Acre

	Quantity per acre.		Quantity per acre.
Artichoke, 1 oz. to 500 plants	6 oz.	Grass—Orchard, Perennial, Rye, Red Top, Fowl Meadow, Wood Meadow	2 bu.
Asparagus, 1 oz. to 800 plants	1 lb.	Horse Radish Roots	10,000 to 15,000
Barley	2 to 2½ bu.	Kale, 1 oz. to 5000 plants	4 oz.
Beans, dwarf, 1 lb. to 100 ft. of drill	1 bu.	Kaffir Corn, in drills	6 to 8 lbs.
Pole, 1 lb. to 100 hills	½ bu.	Kohlrabi, 1 oz. to 100 ft. of drill	4 lbs.
Beet, garden, 1 oz. to 100 ft. drill	7 lbs.	Leek, 1 oz. to 100 ft. of drill	4 lbs.
Mangel, 1 oz. to 75 ft. drill	5 lbs.	Lettuce, 1 oz. to 150 ft. of drill	3 lbs.
Broccoli, 1 oz. to 2000 plants	4 oz.	Millet, for seed, 12 lbs., for hay	20 lbs.
Brussels Sprouts, 1 oz. to 2000 plants	4 oz.	Melon, Musk, 2 oz. to 100 hills	2 to 3 lbs.
Broom Corn, in drills	15 lbs.	Water, 4 oz. to 100 hills	2 to 4 lbs.
Buckwheat	½ to 1 bu.	Nasturtium, 1 oz. to 20 ft. of drill	2 to 3 cu.
Cabbage, 1 oz. to 2000 plants	4 oz.	Oats	8 lbs.
Carrot, ½ oz. to 100 ft. drill	3 lbs.	Okra, 1 oz. to 100 ft. of drill	60 to 85 lbs.
Cauliflower, 1 oz. to 3000 plants	3 oz.	Onion Seed, for sets, 1 oz. to 150 ft. of drill	4 to 5 lbs.
Celery, 1 oz. to 5000 plants	4 oz.	Onion Sets, 1 qt. to 40 ft. of drill	8 bu.
Cheat	2 bu.	Parsnips, 1 oz. to 150 ft. of drill	3 lbs.
Chicory	4 lbs.	Parsley, 1 oz. to 150 ft. of drill	3 lbs.
Clover, Alsike and White	6 to 8 lbs.	Peas, Field	2 bu.
Alfalfa	15 to 20 lbs.	Garden, 1 lb. to 100 ft. of drill	1 to 2 bu.
Crimson Trefoli	10 to 12 lbs.	Pepper, 1 oz. to 1000 plants	3 to 4 lbs.
Red	10 to 12 lbs.	Pumpkin, ½ lb. to 100 hills	10 lbs.
Collards, 1 oz. to 2000 plants	4 oz.	Radish, 1 oz. to 100 ft. of drill	3 to 5 lbs.
Corn-Wheat	2 bu.	Rape	3 to 5 lbs.
Corn, Pop (shelled)	8 to 10 lbs.	Salsify, 1 oz. to 100 ft. of drill	6 lbs.
Sweet or Field, hills	12 to 20 lbs.	Speltz	100 lbs.
For soiling, drills	2 bu.	Spiach, 1 oz. to 100 ft. of drill	8 lbs.
Cress, ¾ oz. to 100 ft. of drill	1 lb.	Sugar Cane, in drills	10 lbs.
Cucumber, 1 oz. to 100 hills	2 to 3 lbs.	Sunflower	8 lbs.
Egg Plant, 1 oz. to 2000 plants	4 oz.	Squash, Summer, 4 oz. to 100 hills	3 lbs.
Endive, ¼ oz. to 100 ft. of drill	4 lbs.	Winter, 8 oz. to 100 hills	4 lbs.
Flax, broadcast	¾ bu.	Tomato, 1 oz. to 2000 plants	4 oz.
Grass, Blue, Kentucky	2 bu.	Tobacco, 1 oz. to 4000 plants	3 oz.
Meadow Fescue	1 bu.	Turnip, 1 oz. to 150 ft. of drill	2 to 3 lbs.
Mixed Lawn	5 to 6 bu.	Vetches	2 bu.
Red Top	2 bu.	With grain	1 bu. each
Red Top, solid seed	12 to 15 lbs.	Wheat	1½ to 2 bu.
Timothy	12 to 15 lbs.		

WEIGHT OF VARIOUS SEEDS

	Per bushel		Per bushel
Barley	48 lbs.	Onion Sets	32 lbs.
Beans	60 lbs.	Peach Pits	48 lbs.
Buckwheat	48 lbs.	Peas, Smooth	60 lbs.
Cheat	34 lbs.	Peas, Wrinkled	56 lbs.
Clover seed	60 lbs.	Perennial Rye	20 lbs.
Corn-Wheat	60 lbs.	Potatoes	60 lbs.
Corn, Shelled	56 lbs.	Rape	60 lbs.
Charcoal	22 lbs.	Rye	56 lbs.
Flax Seed	56 lbs.	Red Top	14 lbs.
Grass Seeds (unless otherwise stated)	14 lbs.	Solid Seed	42 lbs.
Lawn Grass	20 lbs.	Speltz	40 lbs.
Meadow Fescue	24 lbs.	Timothy Seed	45 lbs.
Millet	48 lbs.	Vetches	60 lbs.
Oats	32 lbs.	Wheat	60 lbs.

SUITABLE DISTANCE FOR PLANTING FRUITS

Note.—In planting in the home garden for hand cultivation, you can set plants or trees closer.

Apples, Standard	20 to 30 ft.	Grapes	6 by 8 ft.
Apples, Dwarf	8 to 10 ft.	Currants	4 by 4 ft.
Pears, Standard	18 to 20 ft.	Gooseberries	5 by 6 ft.
Pears, Dwarf	10 ft.	Raspberries	3 by 6 ft.
Peaches and Apricots	16 to 18 ft.	Trailing Blackberries, Logans, etc.	8 by 8 ft.
Cherries, Sweet	18 to 20 ft.	Other Blackberries	2½ by 8 ft.
Cherries, Sour	15 to 18 ft.	Strawberries, rows	2 by 3½ ft.
Plums and Prunes	18 to 20 ft.	Strawberries, in beds	1½ by 2 ft.
Quinces	10 to 12 ft.	Asparagus, in beds	1 by 1½ ft.
		Asparagus, in field	1 by 4 ft.

NUMBER OF TREES OR PLANTS ON AN ACRE

24 by 18 inches	15,520	6 feet each way	1,210
2 feet each way	10,890	8 feet each way	680
2 by 3½ feet	6,223	10 feet each way	430
3 feet each way	4,840	12 feet each way	302
3 by 1 foot	14,520	15 feet each way	194
3 by 4 feet	3,630	18 feet each way	170
3 by 6 feet	2,420	18 feet each way	135
4 feet each way	2,723	20 feet each way	110
4 by 1 foot	10,890	25 feet each way	70
4 by 2 feet	5,445	30 feet each way	48
5 by 8 feet	1,452	40 feet each way	28

Rule.—Multiply the distance in feet between the rows by the distance the plants are apart in the rows, and the product will be the number of square feet, for each plant or hill, which, divided into the number of square feet in an acre (43,560), will give the number of plants or trees to the acre.

OUR MOTTO
"HIGHEST QUALITY"
®



New Dahlia

Madame
Cazalis

Routledge Seed & Floral Co. DAHLIA
169 Second St. SPECIALISTS
PORTLAND, OR.